

# Let's TALK ITCH



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**Effective options for skin allergies (allergic dermatitis).  
One happy dog.**

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**apoquel**<sup>®</sup>  
(oclacitinib tablet)

**apoquel**<sup>®</sup>  
**chewable**  
(oclacitinib chewable tablet)

**CYTOPOINT**

# Does your dog have skin allergies? Let's talk!

When it comes to itch relief, you have options, including daily Apoquel® (oclacitinib tablet), Apoquel® Chewable (oclacitinib chewable tablet), and long-lasting Cytopoint®.

Ask your veterinarian if one is right for you and your dog.



## Common signs of skin allergies in dogs



Frequent scratching, licking, biting, or chewing



Excessive rolling, rubbing, or scooting



Recurrent ear problems (such as head shaking, ear discharge/odor, or scratching at ears)



Hair loss, body odor, recurrent skin infections, or skin changes (such as rash, redness, greasy skin, or scabs)

## Their itch can't wait!

It's easier to relieve the itch and inflammation from skin allergies in dogs early, when the first signs appear. If your dog is scratching, licking, or biting the same area, the skin can become damaged, which may lead to infection. Treating the source of the allergic itch and helping to reduce the scratching allows skin to heal.



Your veterinarian can help relieve your dog's itch and discomfort with treatment that's right for your dog and lifestyle.

## Talk about relief!



Apoquel Tablet/  
Apoquel Chewable



Cytopoint

Provides rapid relief from allergic itch within **4 hours with Apoquel Tablet<sup>1</sup>**

Starts treating allergic itch within **1 day<sup>4</sup>**

Controls itch within **24 hours<sup>2,3</sup>**

Lasts for **4 to 8 weeks<sup>4\*</sup>**

Available as a **chewable** for ease of dosing (given daily with or without food)

A **long-lasting injection** your veterinarian gives your dog every **4 to 8 weeks<sup>4\*</sup>**

\*Repeat administration every 4 to 8 weeks as needed in the individual patient.<sup>4</sup>



## About Apoquel



**Fast**—Apoquel Tablet starts relieving itch within 4 hours<sup>1</sup>; both Apoquel Tablet and Apoquel Chewable control itch within 24 hours<sup>2,3</sup>



**Effective**—works right at the source to stop itching and relieve inflammation due to skin allergies in dogs<sup>5</sup>



**Apoquel is the #1 prescribed oral medication for allergic itch in dogs<sup>6</sup>**



**Available as a chewable to make daily dosing even easier**



**Can be used long-term** for maintenance therapy or short-term<sup>2,7</sup>

Earn up to **\$80 in Zoetis Petcare Rewards<sup>†</sup>**  
Go to [www.zoetispetcare.com/rewards](http://www.zoetispetcare.com/rewards)

<sup>†</sup>Program Terms and Conditions apply.

**Apoquel has been prescribed for over 13 million dogs<sup>8</sup>**



Talk to your veterinarian and learn more at [www.apoqueldogs.com](http://www.apoqueldogs.com)

### APOQUEL INDICATIONS

Control of pruritus (itching) associated with allergic dermatitis and control of atopic dermatitis in dogs at least 12 months of age.

### APOQUEL AND APOQUEL CHEWABLE IMPORTANT SAFETY INFORMATION

Do not use Apoquel or Apoquel Chewable in dogs less than 12 months of age or those with serious infections. Apoquel and Apoquel Chewable may increase the chances of developing serious infections, and may cause existing parasitic skin infestations or pre-existing cancers to get worse. Consider the risks and benefits of treatment in dogs with a history of recurrence of these conditions. New neoplastic conditions (benign and malignant) were observed in clinical studies and post-approval. Apoquel and



## About Cytopoint

One Cytopoint injection **starts treating allergic itch within one day** and provides relief that **lasts 4 to 8 weeks<sup>4\*</sup>**

\*Repeat administration every 4 to 8 weeks as needed in the individual patient.<sup>4</sup>



Injection **given by your veterinarian**



**Relieves signs of itch**, such as scratching and licking



Allows red, irritated skin time to **heal<sup>4</sup>**



Pet owner **quality of life** significantly improves after 1 week with Cytopoint<sup>9</sup>

Never miss your dog's treatment.  
Sign up for Cytopoint **treatment reminders** via text and/or email. Learn more at [www.zoetispetcare.com/reminders](http://www.zoetispetcare.com/reminders)

Talk to your veterinarian and learn more at [www.cytopoint4dogs.com](http://www.cytopoint4dogs.com)

### CYTOPOINT INDICATIONS

Cytopoint has been shown to be effective for the treatment of dogs against allergic dermatitis and atopic dermatitis.

Apoquel Chewable have not been tested in dogs receiving some medications including some commonly used to treat skin conditions such as corticosteroids and cyclosporines. Do not use in breeding, pregnant, or lactating dogs. Most common side effects are vomiting and diarrhea. Apoquel and Apoquel Chewable have been used safely with many common medications including parasiticides, antibiotics and vaccines.

**See accompanying full Prescribing Information.**



## Track that allergic itch!

Tracking your dog's itch can be helpful for you and your veterinarian to see how your dog's behavior changes over time and how well treatment is working.

Use the chart on pages 8 and 9 to keep a record of your dog's itch. Once a day, rate your dog's signs by placing a dot in the day's column. After 14 days, connect the dots to see how your dog's behavior has changed over time. Bring the chart with you to your next veterinarian visit and discuss your dog's progress.



Scan the code or go to  
[www.zoetispetcare.com/  
products/cytopoint](http://www.zoetispetcare.com/products/cytopoint)

## How to rate your dog's signs of itching

### 100 - Extremely severe allergic itching

Dog is scratching, chewing, licking almost continuously. Itching practically never stops, regardless of what else is happening around the dog.

### 80 - Severe itching

Prolonged episodes of itching when the dog is awake. Itching occurs at night and when eating, playing, or exercising, or when otherwise distracted.

### 60 - Moderate itching

Regular episodes of itching when the dog is awake. Itching may occur at night and wake the dog. No itching when eating, playing, exercising, or being distracted.

### 40 - Mild itching

Occasional episodes of itching. There may be occasional episodes of itching at night. No itching when sleeping, eating, playing, exercising, or being distracted.

### 20 - Very mild itching

Rare episodes of itching. The dog is slightly more itchy than before the problem began.

### 0 - Normal dog

Itching is not a problem.





# Track your dog's allergic itch over the next 14 days

(100 - Extremely severe itching; 0 - Normal dog)



Let's TALK  
ITCH

Place a dot at the appropriate spot in that day's column. Connect the dots to show how your dog's behavior has changed over time.

100														
90														
80														
70														
60														
50														
40														
30														
20														
10														
0														
	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14

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## References:

1. Gadeyne C, Little P, King VL, et al. Efficacy of oclacitinib (Apoquel®) compared with prednisolone for the control of pruritus and clinical signs associated with allergic dermatitis in client-owned dogs in Australia. *Vet Dermatol.* 2014;25(6):512-e86. doi:10.1111/vde.12166
2. Cosgrove SB, Wren JA, Cleaver DM, et al. Efficacy and safety of oclacitinib for the control of pruritus and associated skin lesions in dogs with canine allergic dermatitis. *Vet Dermatol.* 2013;24(5):479-e114. doi:10.1111/vde.12047
3. Data on file: Study Report A161C-US-21-C02, Zoetis Inc.
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5. Gonzales AJ, Bowman JW, Fici G, et al. Oclacitinib (Apoquel®) is a novel Janus kinase inhibitor with activity against cytokines involved in allergy. *J Vet Pharmacol Ther.* 2014;37(4):317-324. doi:10.1111/jvp.12101
6. Data on file, PetTrak Total Unique Patient Count, December 2022, Zoetis Inc.
7. Cosgrove SB, Cleaver DM, King VL, et al. Long-term compassionate use of oclacitinib in dogs with atopic and allergic skin disease: safety, efficacy and quality of life. *Vet Dermatol.* 2015;26(3):171-179, e35. doi:10.1111/vde.12194
8. Data on file, ZMR: Kynetec PetTrak – Pets Since Launch December 2022, Zoetis Services LLC.
9. Data on file, Study No. 17SORDER-01-01, 2018, Zoetis Inc.

## APOQUEL INDICATIONS

Control of pruritus (itching) associated with allergic dermatitis and control of atopic dermatitis in dogs at least 12 months of age.

## APOQUEL AND APOQUEL CHEWABLE IMPORTANT SAFETY INFORMATION

Do not use Apoquel or Apoquel Chewable in dogs less than 12 months of age or those with serious infections. Apoquel and Apoquel Chewable may increase the chances of developing serious infections, and may cause existing parasitic skin infestations or pre-existing cancers to get worse. Consider the risks and benefits of treatment in dogs with a history of recurrence of these conditions. New neoplastic conditions (benign and malignant) were observed in clinical studies and post-approval. Apoquel and Apoquel Chewable have not been tested in dogs receiving some medications including some commonly used to treat skin conditions such as corticosteroids and cyclosporines. Do not use in breeding, pregnant, or lactating dogs. Most common side effects are vomiting and diarrhea. Apoquel and Apoquel Chewable have been used safely with many common medications including parasiticides, antibiotics and vaccines.

**See accompanying full Prescribing Information.**

## CYTOPOINT INDICATIONS

Cytopoint has been shown to be effective for the treatment of dogs against allergic dermatitis and atopic dermatitis.

**Let's talk treatment!**

## **Get relief for your dog's itch**

Talk to your veterinarian today about Apoquel and Cytopoint for your dog's skin allergies.



**Learn more:**

**[www.ApoquelDogs.com](http://www.ApoquelDogs.com)**  
**[www.Cytopoint4Dogs.com](http://www.Cytopoint4Dogs.com)**

**apoquel**  
(oclacitinib tablet)

**apoquel**  
**chewable**  
(oclacitinib chewable tablet)

**CYTOPOINT**

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APQ-01109R2

**zoetis**

# apoquel<sup>®</sup>

(oclacitinib tablet)

3.6 mg 5.4 mg 16 mg

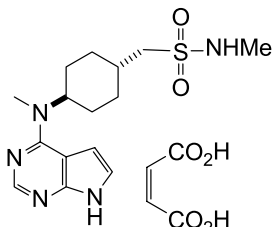
Immunomodulator

## For oral use in dogs only

**Caution:** Federal (USA) Law restricts this drug to use by or on the order of a licensed veterinarian.

**Description:** APOQUEL (oclacitinib maleate) is a synthetic Janus Kinase (JAK) inhibitor. The chemical composition of APOQUEL is N-methyl[trans-4-(methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)cyclohexyl]methanesulfonamide (2Z)-2-butenedioate.

The chemical structure of oclacitinib maleate is:



**Indications:** Control of pruritus associated with allergic dermatitis and control of atopic dermatitis in dogs at least 12 months of age.

**Dosage and Administration:** The dose of APOQUEL (oclacitinib maleate) tablets is 0.18 to 0.27 mg oclacitinib/lb (0.4 to 0.6 mg oclacitinib/kg) body weight, administered orally, twice daily for up to 14 days, and then administered once daily for maintenance therapy. APOQUEL may be administered with or without food.

## Dosing Chart

Weight Range (in lb)		Weight Range (in Kg)		Number of Tablets to be Administered		
Low	High	Low	High	3.6 mg Tablets	5.4 mg Tablets	16 mg Tablets
6.6	9.9	3.0	4.4	0.5	-	-
10.0	14.9	4.5	5.9	-	0.5	-
15.0	19.9	6.0	8.9	1	-	-
20.0	29.9	9.0	13.4	-	1	-
30.0	44.9	13.5	19.9	-	-	0.5
45.0	59.9	20.0	26.9	-	2	-
60.0	89.9	27.0	39.9	-	-	1
90.0	129.9	40.0	54.9	-	-	1.5
130.0	175.9	55.0	80.0	-	-	2

## Warnings:

APOQUEL is not for use in dogs less than 12 months of age (see **Animal Safety**).

APOQUEL modulates the immune system.

APOQUEL is not for use in dogs with serious infections.

APOQUEL may increase susceptibility to infection, including demodicosis, and exacerbation of neoplastic conditions (see **Precautions, Adverse Reactions, Post-Approval Experience and Animal Safety**).

New neoplastic conditions (benign and malignant) were observed in dogs treated with APOQUEL during clinical studies and have been reported in the post-approval period (see **Adverse Reactions and Post-Approval Experience**).

Consider the risks and benefits of treatment prior to initiating APOQUEL in dogs with a history of recurrent serious infections or recurrent demodicosis or neoplasia (see **Adverse Reactions, Post-Approval Experience, and Animal Safety**).

Keep APOQUEL in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

## Human Warnings:

This product is not for human use. Keep this and all drugs out of reach of children. For use in dogs only. Wash hands immediately after handling the tablets. In case of accidental eye contact, flush immediately with water or saline for at least 15 minutes and then seek medical attention. In case of accidental ingestion, seek medical attention immediately.

## Precautions:

Dogs receiving APOQUEL should be monitored for the development of infections, including demodicosis, and neoplasia.

The use of APOQUEL has not been evaluated in combination with glucocorticoids, cyclosporine, or other systemic immunosuppressive agents.

APOQUEL is not for use in breeding dogs, or pregnant or lactating bitches.

## Adverse Reactions:

### Control of Atopic Dermatitis

In a masked field study to assess the effectiveness and safety of oclacitinib for the control of atopic dermatitis in dogs, 152 dogs treated with APOQUEL and 147 dogs treated with placebo (vehicle control) were evaluated for safety. The majority of dogs in the placebo group withdrew from the 112-day study by Day 16. Adverse reactions reported (and percent of dogs affected) during Days 0-16 included diarrhea (4.6% APOQUEL, 3.4% placebo), vomiting (3.9% APOQUEL, 4.1% placebo), anorexia (2.6% APOQUEL, 0% placebo), new cutaneous or subcutaneous lump (2.6% APOQUEL, 2.7% placebo), and lethargy (2.0% APOQUEL, 1.4% placebo). In most cases, diarrhea, vomiting, anorexia, and lethargy spontaneously resolved with continued dosing. Dogs on APOQUEL had decreased leukocytes (neutrophil, eosinophil, and monocyte counts) and serum globulin, and increased cholesterol and lipase compared to the placebo group but group means remained within the normal range. Mean lymphocyte counts were transiently increased at Day 14 in the APOQUEL group.

Dogs that withdrew from the masked field study could enter an unmasked study where all dogs received APOQUEL. Between the masked and unmasked study, 283 dogs received at least one dose of APOQUEL. Of these 283 dogs, two dogs were withdrawn from study due to suspected treatment-related adverse reactions: one dog that had an intense flare-up of dermatitis and severe secondary pyoderma after 19 days of APOQUEL administration, and one dog that developed generalized demodicosis after 28 days of APOQUEL administration. Two other dogs on APOQUEL were withdrawn from study due to suspected or confirmed malignant neoplasia and subsequently euthanized, including one dog that developed signs associated with a heart base mass after 21 days of APOQUEL administration, and one dog that developed a Grade III mast cell tumor after 60 days of APOQUEL administration.

One of the 147 dogs in the placebo group developed a Grade I mast cell tumor and was withdrawn from the masked study. Additional dogs receiving APOQUEL were hospitalized for diagnosis and treatment of pneumonia (one dog), transient bloody vomiting and stool (one dog), and cystitis with urolithiasis (one dog).

In the 283 dogs that received APOQUEL, the following additional clinical signs were reported after beginning APOQUEL (percentage of dogs with at least one report of the clinical sign as a non-pre-existing finding): pyoderma (12.0%), non-specified dermal lumps (12.0%), otitis (9.9%), vomiting (9.2%), diarrhea (6.0%), histiocytoma (3.9%), cystitis (3.5%), anorexia (3.2%), lethargy (2.8%), yeast skin infections (2.5%), pododermatitis (2.5%), lipoma (2.1%), polydipsia (1.4%), lymphadenopathy (1.1%), nausea (1.1%), increased appetite (1.1%), aggression (1.1%), and weight loss (0.7%).

### Control of Pruritus Associated with Allergic Dermatitis

In a masked field study to assess the effectiveness and safety of oclacitinib for the control of pruritus associated with allergic dermatitis in dogs, 216 dogs treated with APOQUEL and 220 dogs treated with placebo (vehicle control) were evaluated for safety. During the 30-day study, there were no fatalities and no adverse reactions requiring hospital care. Adverse reactions reported (and percent of dogs affected) during Days 0-7 included diarrhea (2.3% APOQUEL, 0.9% placebo), vomiting (2.3% APOQUEL, 1.8% placebo), lethargy (1.8% APOQUEL, 1.4% placebo), anorexia (1.4% APOQUEL, 0% placebo), and polydipsia (1.4% APOQUEL, 0% placebo). In most of these cases, signs spontaneously resolved with continued dosing. Five APOQUEL group dogs were withdrawn from study because of: darkening areas of skin and fur (1 dog); diarrhea (1 dog); fever, lethargy and cystitis (1 dog); an inflamed footpad and vomiting (1 dog); and diarrhea, vomiting, and lethargy (1 dog). Dogs in the APOQUEL group had a slight decrease in mean white blood cell counts (neutrophil, eosinophil, and monocyte counts) that remained within the normal reference range. Mean lymphocyte count for dogs in the APOQUEL group increased at Day 7, but returned to pretreatment levels by study end without a break in APOQUEL administration. Serum cholesterol increased in 25% of APOQUEL group dogs, but mean cholesterol remained within the reference range.

### Continuation Field Study

After completing APOQUEL field studies, 239 dogs enrolled in an unmasked (no placebo control), continuation therapy study receiving APOQUEL for an unrestricted period of time. Mean time on this study was 372 days (range 1 to 610 days). Of these 239 dogs, one dog developed demodicosis following 273 days of APOQUEL administration. One dog developed dermal pigmented viral plaques following 266 days of APOQUEL administration. One dog developed a moderately severe bronchopneumonia after 272 days of APOQUEL administration; this infection resolved with antimicrobial treatment and temporary discontinuation of APOQUEL. One dog was euthanized after developing abdominal ascites and pleural effusion of unknown etiology after 450 days of APOQUEL administration. Six dogs were euthanized because of suspected malignant neoplasms: including thoracic metastatic, abdominal metastatic, splenic, frontal sinus, and intracranial neoplasms, and transitional cell carcinoma after 17, 120, 175, 49, 141, and 286 days of APOQUEL administration, respectively. Two dogs each developed a Grade II mast cell tumor after 52 and 91 days of APOQUEL administration, respectively. One dog developed low grade B-cell lymphoma after 392 days of APOQUEL administration. Two dogs each developed an apocrine gland adenocarcinoma (one dermal, one anal sac) after approximately 210 and 320 days of APOQUEL administration, respectively. One dog developed a low grade oral spindle cell sarcoma after 320 days of APOQUEL administration.

### Post-Approval Experience (2020):

The following adverse events are based on post-approval adverse drug experience reporting for APOQUEL. Not all adverse events are reported to FDA/CVM. It is not always possible to reliably estimate the adverse event frequency or establish a causal relationship to product exposure using these data.

The following adverse events reported in dogs are listed in decreasing order of reporting frequency.

Vomiting, lethargy, anorexia, diarrhea, elevated liver enzymes, dermatitis (i.e. crusts, pododermatitis, pyoderma), seizures, polydipsia, and demodicosis.

Benign, malignant, and unclassified neoplasms, dermal masses (including papillomas and histiocytomas), lymphoma and other cancers have been reported.

Death (including euthanasia) has been reported.

### Contact Information:

To report suspected adverse events, for technical assistance or to obtain a copy of the Safety Data Sheet, contact Zoetis Inc. at 1-888-963-8471 or [www.zoetis.com](http://www.zoetis.com).

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at [www.fda.gov/reportanimalae](http://www.fda.gov/reportanimalae).



## Clinical Pharmacology:

### Mechanism of Action

Oclacitinib inhibits the function of a variety of pruritogenic cytokines and pro-inflammatory cytokines, as well as cytokines involved in allergy that are dependent on JAK1 or JAK3 enzyme activity. It has little effect on cytokines involved in hematopoiesis that are dependent on JAK2. Oclacitinib is not a corticosteroid or an antihistamine.

### Pharmacokinetics

In dogs, oclacitinib maleate is rapidly and well absorbed following oral administration, with mean time to peak plasma concentrations ( $T_{max}$ ) of less than 1 hour. Following oral administration of 0.4-0.6 mg oclacitinib/kg to 24 dogs, the mean (90% confidence limits [CL]) maximum concentration ( $C_{max}$ ) was 324 (281, 372) ng/mL and the mean area under the plasma concentration-time curve from 0 and extrapolated to infinity ( $AUC_{0-\infty}$ ) was 1890 (1690, 2110) ng·hr/mL. The prandial state of dogs does not significantly affect the rate or extent of absorption. The absolute bioavailability of oclacitinib maleate was 89%.

Oclacitinib has low protein binding with 66.3-69.7% bound in fortified canine plasma at nominal concentrations ranging from 10-1000 ng/mL. The apparent mean (95% CL) volume of distribution at steady-state was 942 (870, 1014) mL/kg body weight.

Oclacitinib is metabolized in the dog to multiple metabolites and one major oxidative metabolite was identified in plasma and urine. Overall the major clearance route is metabolism with minor contributions from renal and biliary elimination. Inhibition of canine cytochrome P450 enzymes by oclacitinib is minimal; the inhibitory concentrations ( $IC_{50}$ ) are 50 fold greater than the observed  $C_{max}$  values at the use dose.

Mean (95% CL) total body oclacitinib clearance from plasma was low – 316 (237, 396) mL/h/kg body weight (5.3 mL/min/kg body weight). Following IV and PO administration, the terminal  $t_{1/2}$  appeared similar with mean values of 3.5 (2.2, 4.7) and 4.1 (3.1, 5.2) hours, respectively.

### Effectiveness:

#### Control of Atopic Dermatitis

A double-masked, 112-day, controlled study was conducted at 18 U.S. veterinary hospitals. The study enrolled 299 client-owned dogs with atopic dermatitis. Dogs were randomized to treatment with APOQUEL (152 dogs: tablets administered at a dose of 0.4-0.6 mg/kg per dose twice daily for 14 days and then once daily) or placebo (147 dogs: vehicle control, tablets administered on the same schedule). During the study, dogs could not be treated with other drugs that could affect the assessment of effectiveness, such as corticosteroids, anti-histamines, or cyclosporine. Treatment success for pruritus for each dog was defined as at least a 2 cm decrease from baseline on a 10 cm visual analog scale (VAS) in pruritus, assessed by the Owner, on Day 28. Treatment success for skin lesions was defined as a 50% decrease from the baseline Canine Atopic Dermatitis Extent and Severity Index (CADESI) score, assessed by the Veterinarian, on Day 28. The estimated proportion of dogs with Treatment Success in Owner-assessed pruritus VAS score and in Veterinarian-assessed CADESI score was greater and significantly different for the APOQUEL group compared to the placebo group.

Estimated Proportion of Dogs with Treatment Success, Atopic Dermatitis

Effectiveness Parameter	APOQUEL	Placebo	P-value
Owner-Assessed Pruritus VAS	0.66 (n = 131)	0.04 (n = 133)	$p < 0.0001$
Veterinarian-Assessed CADESI	0.49 (n = 134)	0.04 (n = 134)	$p < 0.0001$

Compared to the placebo group, mean Owner-assessed pruritus VAS scores (on Days 1, 2, 7, 14, and 28) and Veterinarian-assessed CADESI scores (on Days 14 and 28) were lower (improved) in dogs in the APOQUEL group. By Day 30, 86% (127/147) of the placebo group dogs and 15% (23/152) of the APOQUEL group dogs withdrew from the masked study because of worsening clinical signs, and had the option to enroll in an unmasked study and receive APOQUEL. For dogs that continued APOQUEL treatment beyond one month, the mean Owner-assessed pruritus VAS scores and Veterinarian-assessed CADESI scores continued to improve through study end at Day 112.

#### Control of Pruritus Associated with Allergic Dermatitis

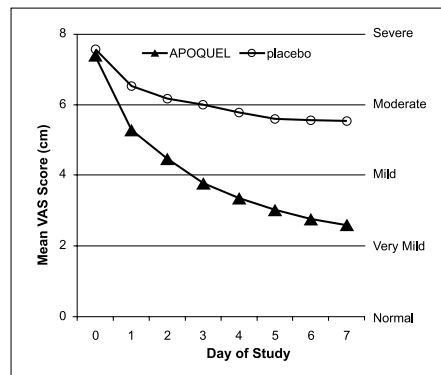
A double-masked, 30-day, controlled study was conducted at 26 U.S. veterinary hospitals. The study enrolled 436 client-owned dogs with a history of allergic dermatitis attributed to one or more of the following conditions: atopic dermatitis, flea allergy, food allergy, contact allergy, and other/unspecified allergic dermatitis. Dogs were randomized to treatment with APOQUEL (216 dogs: tablets administered at a dose of 0.4-0.6 mg/kg twice daily) or placebo (220 dogs: vehicle control, tablets administered twice daily). During the study, dogs could not be treated with other drugs that could affect the assessment of pruritus or dermal inflammation such as corticosteroids, anti-histamines, or cyclosporine. Treatment success for each dog was defined as at least a 2 cm decrease from baseline on a 10 cm visual analog scale (VAS) in pruritus, assessed by the Owner, on at least 5 of the 7 evaluation days. The estimated proportion of dogs with Treatment Success was greater and significantly different for the APOQUEL group compared to the placebo group.

Owner-Assessed Pruritus VAS Treatment Success, Allergic Dermatitis

Effectiveness Parameter	APOQUEL (n = 203)	Placebo (n = 204)	P-value
Estimated Proportion of Dogs with Treatment Success	0.67	0.29	$p < 0.0001$

After one week of treatment, 86.4% of APOQUEL group dogs compared with 42.5% of placebo group dogs had achieved a 2 cm reduction on the 10 cm Owner-assessed pruritus VAS. On each of the 7 days, mean Owner-assessed pruritus VAS scores were lower in dogs in the APOQUEL group (See Figure 1). Veterinarians used a 10 cm VAS scale to assess each dog's dermatitis. After one week of treatment, the mean Veterinarian-assessed VAS dermatitis score for the dogs in the APOQUEL group was lower at 2.2 cm (improved from a baseline value of 6.2 cm) compared with the placebo group mean score of 4.9 cm (from a baseline value of 6.2 cm). For dogs that continued APOQUEL treatment beyond one week, the Veterinarian-assessed dermatitis scores continued to improve through study end at Day 30.

Figure 1: Owner Assessed Pruritus VAS Scores by treatment for Days 0-7



### Animal Safety:

#### Margin of Safety in 12 Month Old Dogs

Oclacitinib maleate was administered to healthy, one-year-old Beagle dogs twice daily for 6 weeks, followed by once daily for 20 weeks, at 0.6 mg/kg (1X maximum exposure dose, 8 dogs), 1.8 mg/kg (3X, 8 dogs), and 3.0 mg/kg (5X, 8 dogs) oclacitinib for 26 weeks. Eight dogs received placebo (empty gelatin capsule) at the same dosage schedule. Clinical observations that were considered likely to be related to oclacitinib maleate included papillomas and a dose-dependent increase in the number and frequency of interdigital furunculosis (cysts) on one or more feet during the study. Additional clinical observations were primarily related to the interdigital furunculosis and included dermatitis (local alopecia, erythema, abrasions, scabbing/crusts, and edema of feet) and lymphadenopathy of peripheral nodes. Microscopic findings considered to be oclacitinib maleate-related included decreased cellularity (lymphoid) in Gut-Associated Lymphoid Tissue (GALT), spleen, thymus, cervical and mesenteric lymph node; and decreased cellularity of sternal and femoral bone marrow. Lymphoid hyperplasia and chronic active inflammation was seen in lymph nodes draining feet affected with interdigital furunculosis. Five oclacitinib maleate-treated dogs had microscopic evidence of mild interstitial pneumonia. Clinical pathology findings considered to be oclacitinib maleate-related included mild, dose-dependent reduction in hemoglobin, hematocrit, and reticulocyte counts during the twice daily dosing period with decreases in the leukocyte subsets of lymphocytes, eosinophils, and basophils. Total proteins were decreased over time primarily due to the albumin fraction.

#### Vaccine Response Study

An adequate immune response (serology) to killed rabies (RV), modified live canine distemper virus (CDV), and modified live canine parvovirus (CPV) vaccination was achieved in eight 16-week old vaccine naive puppies that were administered oclacitinib maleate at 1.8 mg/kg oclacitinib (3X maximum exposure dose) twice daily for 84 days. For modified live canine parainfluenza virus (CPI), < 80% (6 of 8) of the dogs achieved adequate serologic response. Clinical observations that were considered likely to be related to oclacitinib maleate treatment included enlarged lymph nodes, interdigital furunculosis, cysts, and pododermatitis. One oclacitinib maleate-treated dog (26-weeks-old) was euthanized on Day 74 after physical examination revealed the dog to be febrile, lethargic, with pale mucous membranes and frank blood in stool. Necropsy revealed pneumonia of short duration and evidence of chronic lymphadenitis of mesenteric lymph nodes. During the three month recovery phase to this study, one oclacitinib maleate-treated dog (32-weeks old) was euthanized on Day 28 due to clinical signs which included enlarged prescapular lymph nodes, bilateral epiphora, lethargy, mild dyspnea, and fever. The dog showed an elevated white blood cell (WBC) count. Necropsy revealed lesions consistent with sepsis secondary to immunosuppression. Bone marrow hyperplasia was consistent with response to sepsis.

#### Margin of Safety in 6 Month Old Dogs

A margin of safety study in 6-month-old dogs was discontinued after four months due to the development of bacterial pneumonia and generalized demodex mange infections in dogs in the high dose (3X and 5X) treatment groups, dosed at 1.8 and 3.0 mg/kg oclacitinib twice daily, for the entire study.

#### Storage Conditions:

APOQUEL should be stored at controlled room temperature between 20° to 25°C (68° to 77°F) with excursions between 15° to 40°C (59° to 104°F).

#### How Supplied:

APOQUEL tablets contain 3.6 mg, 5.4 mg, or 16 mg of oclacitinib as oclacitinib maleate per tablet. Each strength tablets are packaged in 100 and 250 count bottles. Each tablet is scored and marked with AQ and either an S, M, or L that correspond to the different tablet strengths on both sides.

Approved by FDA under NADA # 141-345

**zoetis**

Distributed by:  
Zoetis Inc.  
Kalamazoo, MI 49007

Revised: December 2020

40033180A&P

# apoquel<sup>®</sup> chewable

(oclacitinib chewable tablet)

3.6 mg    5.4 mg    16 mg

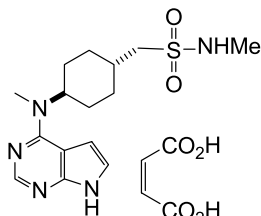
Immunomodulator

## For oral use in dogs only

**Caution:** Federal Law restricts this drug to use by or on the order of a licensed veterinarian.

**Description:** APOQUEL CHEWABLE (oclacitinib chewable tablet) is a synthetic Janus Kinase (JAK) inhibitor. The chemical composition of oclacitinib maleate is N-methyl-1-[trans-4-(methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino) cyclohexyl]methanesulfonamide (2Z)-2-butenedioate.

The chemical structure of oclacitinib maleate is:



**Indications:** Control of pruritus associated with allergic dermatitis and control of atopic dermatitis in dogs at least 12 months of age.

**Dosage and Administration:** The dose of APOQUEL CHEWABLE (oclacitinib chewable tablet) is 0.18 to 0.27 mg oclacitinib/lb (0.4 to 0.6 mg oclacitinib/kg) body weight, administered orally, twice daily for up to 14 days, and then administered once daily for maintenance therapy.

## Dosing Chart

Weight Range (in lb)		Weight Range (in Kg)		Number of Tablets to be Administered		
Low	High	Low	High	3.6 mg Tablets	5.4 mg Tablets	16 mg Tablets
6.6	9.9	3.0	4.4	0.5	-	-
10.0	14.9	4.5	5.9	-	0.5	-
15.0	19.9	6.0	8.9	1	-	-
20.0	29.9	9.0	13.4	-	1	-
30.0	44.9	13.5	19.9	-	-	0.5
45.0	59.9	20.0	26.9	-	2	-
60.0	89.9	27.0	39.9	-	-	1
90.0	129.9	40.0	54.9	-	-	1.5
130.0	175.9	55.0	80.0	-	-	2

## Warnings:

APOQUEL CHEWABLE is not for use in dogs less than 12 months of age (see **Animal Safety**).

APOQUEL CHEWABLE modulates the immune system.

APOQUEL CHEWABLE is not for use in dogs with serious infections.

APOQUEL CHEWABLE may increase susceptibility to infection, including demodicosis, and exacerbation of neoplastic conditions (see **Precautions, Adverse Reactions, Post-Approval Experience and Animal Safety**).

New neoplastic conditions (benign and malignant) were observed in dogs treated with oclacitinib film-coated tablets (FCT) during clinical studies and have been reported in the post-approval period (see **Adverse Reactions and Post-Approval Experience**).

Consider the risks and benefits of treatment prior to initiating APOQUEL CHEWABLE in dogs with a history of recurrent serious infections or recurrent demodicosis or neoplasia (see **Adverse Reactions, Post-Approval Experience, and Animal Safety**).

Keep APOQUEL CHEWABLE in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

## Human Warnings:

This product is not for human use. Keep this and all drugs out of reach of children. For use in dogs only. Wash hands immediately after handling the tablets. In case of accidental eye contact, flush immediately with water or saline for at least 15 minutes and then seek medical attention. In case of accidental ingestion, seek medical attention immediately.

## Precautions:

Dogs receiving APOQUEL CHEWABLE should be monitored for the development of infections, including demodicosis, and neoplasia.

The use of APOQUEL CHEWABLE has not been evaluated in combination with glucocorticoids, cyclosporine, or other systemic immunosuppressive agents.

APOQUEL CHEWABLE is not for use in breeding dogs, or pregnant or lactating bitches.

## Adverse Reactions:

The safety of APOQUEL CHEWABLE was established by pharmacokinetic data comparing oclacitinib film-coated tablets to APOQUEL CHEWABLE (see **Clinical Pharmacology**).

## Control of Atopic Dermatitis

In a masked field study to assess the effectiveness and safety of oclacitinib for the control of atopic dermatitis in dogs, 152 dogs treated with oclacitinib FCT and 147 dogs treated with

placebo (vehicle control) were evaluated for safety. The majority of dogs in the placebo group withdrew from the 112-day study by Day 16. Adverse reactions reported (and percent of dogs affected) during Days 0-16 included diarrhea (4.6% oclacitinib FCT, 3.4% placebo), vomiting (3.9% oclacitinib FCT, 4.1% placebo), anorexia (2.6% oclacitinib FCT, 0% placebo), new cutaneous or subcutaneous lump (2.6% oclacitinib FCT, 2.7% placebo), and lethargy (2.0% oclacitinib FCT, 1.4% placebo). In most cases, diarrhea, vomiting, anorexia, and lethargy spontaneously resolved with continued dosing. Dogs on oclacitinib FCT had decreased leukocytes (neutrophil, eosinophil, and monocyte counts) and serum globulin, and increased cholesterol and lipase compared to the placebo group but group means remained within the normal range. Mean lymphocyte counts were transiently increased at Day 14 in the oclacitinib FCT group.

Dogs that withdrew from the masked field study could enter an unmasked study where all dogs received oclacitinib FCT. Between the masked and unmasked study, 283 dogs received at least one dose of oclacitinib FCT. Of these 283 dogs, two dogs were withdrawn from study due to suspected treatment-related adverse reactions: one dog that had an intense flare-up of dermatitis and severe secondary pyoderma after 19 days of oclacitinib FCT administration, and one dog that developed generalized demodicosis after 28 days of oclacitinib FCT administration. Two other dogs on oclacitinib FCT were withdrawn from study due to suspected or confirmed malignant neoplasia and subsequently euthanized, including one dog that developed signs associated with a heart base mass after 21 days of oclacitinib FCT administration, and one dog that developed a Grade III mast cell tumor after 60 days of oclacitinib FCT administration.

One of the 147 dogs in the placebo group developed a Grade I mast cell tumor and was withdrawn from the masked study. Additional dogs receiving oclacitinib FCT were hospitalized for diagnosis and treatment of pneumonia (one dog), transient bloody vomiting and stool (one dog), and cystitis with urolithiasis (one dog).

In the 283 dogs that received oclacitinib FCT, the following additional clinical signs were reported after beginning oclacitinib FCT (percentage of dogs with at least one report of the clinical sign as a non-pre-existing finding): pyoderma (12.0%), non-specified dermal lumps (12.0%), otitis (9.9%), vomiting (9.2%), diarrhea (6.0%), histiocytoma (3.9%), cystitis (3.5%), anorexia (3.2%), lethargy (2.8%), yeast skin infections (2.5%), pododermatitis (2.5%), lipoma (2.1%), polydipsia (1.4%), lymphadenopathy (1.1%), nausea (1.1%), increased appetite (1.1%), aggression (1.1%), and weight loss (0.7).

## Control of Pruritus Associated with Allergic Dermatitis

In a masked field study to assess the effectiveness and safety of oclacitinib for the control of pruritus associated with allergic dermatitis in dogs, 216 dogs treated with oclacitinib FCT and 220 dogs treated with placebo (vehicle control) were evaluated for safety. During the 30-day study, there were no fatalities and no adverse reactions requiring hospital care. Adverse reactions reported (and percent of dogs affected) during Days 0-7 included diarrhea (2.3% oclacitinib FCT, 0.9% placebo), vomiting (2.3% oclacitinib FCT, 1.8% placebo), lethargy (1.8% oclacitinib FCT, 1.4% placebo), anorexia (1.4% oclacitinib FCT, 0% placebo), and polydipsia (1.4% oclacitinib FCT, 0% placebo). In most of these cases, signs spontaneously resolved with continued dosing. Five oclacitinib FCT group dogs were withdrawn from study because of: darkening areas of skin and fur (1 dog); diarrhea (1 dog); fever, lethargy and cystitis (1 dog); an inflamed footpad and vomiting (1 dog); and diarrhea, vomiting, and lethargy (1 dog). Dogs in the oclacitinib FCT group had a slight decrease in mean white blood cell counts (neutrophil, eosinophil, and monocyte counts) that remained within the normal reference range. Mean lymphocyte count for dogs in the oclacitinib FCT group increased at Day 7, but returned to pretreatment levels by study end without a break in oclacitinib FCT administration. Serum cholesterol increased in 25% of oclacitinib FCT group dogs, but mean cholesterol remained within the reference range.

## Continuation Field Study

After completing oclacitinib FCT field studies, 239 dogs enrolled in an unmasked (no placebo control), continuation therapy study receiving oclacitinib FCT for an unrestricted period of time. Mean time on this study was 372 days (range 1 to 610 days). Of these 239 dogs, one dog developed demodicosis following 273 days of oclacitinib FCT administration. One dog developed dermal pigmented viral plaques following 266 days of oclacitinib FCT administration. One dog developed a moderately severe bronchopneumonia after 272 days of oclacitinib FCT administration; this infection resolved with antimicrobial treatment and temporary discontinuation of oclacitinib FCT. One dog was euthanized after developing abdominal ascites and pleural effusion of unknown etiology after 450 days of oclacitinib FCT administration. Six dogs were euthanized because of suspected malignant neoplasms: including thoracic metastatic, abdominal metastatic, splenic, frontal sinus, and intracranial neoplasms, and transitional cell carcinoma after 17, 120, 175, 49, 141, and 286 days of oclacitinib FCT administration, respectively. Two dogs each developed a Grade II mast cell tumor after 52 and 91 days of oclacitinib FCT administration, respectively. One dog developed low grade B-cell lymphoma after 392 days of oclacitinib FCT administration. Two dogs each developed an apocrine gland adenocarcinoma (one dermal, one anal sac) after approximately 210 and 320 days of oclacitinib FCT administration, respectively. One dog developed a low grade oral spindle cell sarcoma after 320 days of oclacitinib FCT administration.

## Post-Approval Experience (2020):

The following adverse events are based on post-approval adverse drug experience reporting for oclacitinib FCT. Not all adverse events are reported to FDA/CVM. It is not always possible to reliably estimate the adverse event frequency or establish a causal relationship to product exposure using these data.

The following adverse events reported in dogs are listed in decreasing order of reporting frequency.

Vomiting, lethargy, anorexia, diarrhea, elevated liver enzymes, dermatitis (i.e. crusts, pododermatitis, pyoderma), seizures, polydipsia, and demodicosis.

Benign, malignant, and unclassified neoplasms, dermal masses (including papillomas and histiocytomas), lymphoma and other cancers have been reported.

Death (including euthanasia) has been reported.

## Contact Information:

To report suspected adverse events, for technical assistance or to obtain a copy of the Safety Data Sheet, contact Zoetis Inc. at 1-888-963-8471 or www.zoetis.com.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.

## Clinical Pharmacology:

### Mechanism of Action

Oclacitinib inhibits the function of a variety of pruritogenic cytokines and pro-inflammatory cytokines, as well as cytokines involved in allergy that are dependent on JAK1 or JAK3 enzyme activity. It has little effect on cytokines involved in hematopoiesis that are dependent on JAK2. Oclacitinib is not a corticosteroid or an antihistamine.

### Pharmacokinetics

A pharmacokinetic study was conducted to compare the bioavailability of APOQUEL CHEWABLE with oclacitinib FCT. Bioequivalence (BE) was demonstrated for the extent of exposure between APOQUEL CHEWABLE and oclacitinib FCT with the geometric mean ratio for the area under the curve from zero to the last sampling time point [AUC<sub>0-1last</sub>] of 1.03 and the 90% confidence interval (CI) within the acceptable range of 0.80 to 1.25. However, BE was not demonstrated for the maximum concentration (C<sub>max</sub>), with the geometric mean ratio of 0.86 and 90% CI of 0.78 to 0.95, outside the acceptable range of 0.8 to 1.25. Based on simulations, in accordance with the dosage regimen, the small differences in C<sub>max</sub> values between APOQUEL CHEWABLE and oclacitinib FCT after the first dose are likely to be minimal at steady-state.

In dogs, oclacitinib is rapidly and well absorbed following oral administration, with mean time to peak plasma concentrations (T<sub>max</sub>) of less than 2 hours. Following oral administration of a single 5.4 mg APOQUEL CHEWABLE to 42 dogs, the mean C<sub>max</sub> was 292 ng/mL and the mean area under the plasma concentration-time curve from 0 and extrapolated to infinity (AUC<sub>0-∞</sub>) was 2570 ng-hr/mL.

Oclacitinib has low protein binding with 66.3-69.7% bound in fortified canine plasma at nominal concentrations ranging from 10-1000 ng/mL. The apparent mean (95% CL) volume of distribution at steady-state was 942 (870, 1014) mL/kg body weight.

Mean (95% CL) total body oclacitinib clearance from plasma was low – 316 (237, 396) mL/h/kg body weight (5.3 mL/min/kg body weight). Following intravenous and oral administration, the terminal half-life appeared similar with mean values of 3.5 (2.2, 4.7) and 4.1 (3.1, 5.2) hours, respectively.

Oclacitinib is metabolized in the dog to multiple metabolites and one major oxidative metabolite was identified in plasma and urine. Overall the major clearance route is metabolism with minor contributions from renal and biliary elimination. Inhibition of canine cytochrome P450 enzymes by oclacitinib is minimal; the inhibitory concentrations (IC<sub>50s</sub>) are 50 fold greater than the observed C<sub>max</sub> values at the use dose.

### Effectiveness:

The effectiveness of APOQUEL CHEWABLE was established by pharmacokinetic data comparing oclacitinib FCT to APOQUEL CHEWABLE (see **Clinical Pharmacology**).

Bioequivalence was not met for the lower 90% CI of the maximum concentration (C<sub>max</sub>), which may delay the speed of onset of effectiveness of APOQUEL CHEWABLE at the first dose or when transitioning from the oclacitinib FCT.

### Control of Atopic Dermatitis

A double-masked, 112-day, controlled study was conducted at 18 U.S. veterinary hospitals. The study enrolled 299 client-owned dogs with atopic dermatitis. Dogs were randomized to treatment with oclacitinib FCT (152 dogs: tablets administered at a dose of 0.4-0.6 mg/kg per dose twice daily for 14 days and then once daily) or placebo (147 dogs: vehicle control, tablets administered on the same schedule). During the study, dogs could not be treated with other drugs that could affect the assessment of effectiveness, such as corticosteroids, anti-histamines, or cyclosporine. Treatment success for pruritus for each dog was defined as at least a 2 cm decrease from baseline on a 10 cm visual analog scale (VAS) in pruritus, assessed by the Owner, on Day 28. Treatment success for skin lesions was defined as a 50% decrease from the baseline Canine Atopic Dermatitis Extent and Severity Index (CADESI) score, assessed by the Veterinarian, on Day 28. The estimated proportion of dogs with Treatment Success in Owner-assessed pruritus VAS score and in Veterinarian-assessed CADESI score was greater and significantly different for the oclacitinib FCT group compared to the placebo group.

Estimated Proportion of Dogs with Treatment Success, Atopic Dermatitis

Effectiveness Parameter	oclacitinib FCT	Placebo	P-value
Owner-Assessed Pruritus VAS	0.66 (n = 131)	0.04 (n = 133)	p<0.0001
Veterinarian-Assessed CADESI	0.49 (n = 134)	0.04 (n = 134)	p<0.0001

Compared to the placebo group, mean Owner-assessed pruritus VAS scores (on Days 1, 2, 7, 14, and 28) and Veterinarian-assessed CADESI scores (on Days 14 and 28) were lower (improved) in dogs in the oclacitinib FCT group. By Day 30, 86% (127/147) of the placebo group dogs and 15% (23/152) of the oclacitinib FCT group dogs withdrew from the masked study because of worsening clinical signs, and had the option to enroll in an unmasked study and receive oclacitinib FCT. For dogs that continued oclacitinib FCT treatment beyond one month, the mean Owner-assessed pruritus VAS scores and Veterinarian-assessed CADESI scores continued to improve through study end at Day 112.

### Control of Pruritus Associated with Allergic Dermatitis

A double-masked, 30-day, controlled study was conducted at 26 U.S. veterinary hospitals. The study enrolled 436 client-owned dogs with a history of allergic dermatitis attributed to one or more of the following conditions: atopic dermatitis, flea allergy, food allergy, contact allergy, and other/unspecified allergic dermatitis. Dogs were randomized to treatment with oclacitinib FCT (216 dogs: tablets administered at a dose of 0.4-0.6 mg/kg twice daily) or placebo (220 dogs: vehicle control, tablets administered twice daily). During the study, dogs could not be treated with other drugs that could affect the assessment of pruritus or dermal inflammation such as corticosteroids, anti-histamines, or cyclosporine. Treatment success for each dog was defined as at least a 2 cm decrease from baseline on a 10 cm visual analog scale (VAS) in pruritus, assessed by the Owner, on at least 5 of the 7 evaluation days. The estimated proportion of dogs with Treatment Success was greater and significantly different for the oclacitinib FCT group compared to the placebo group.

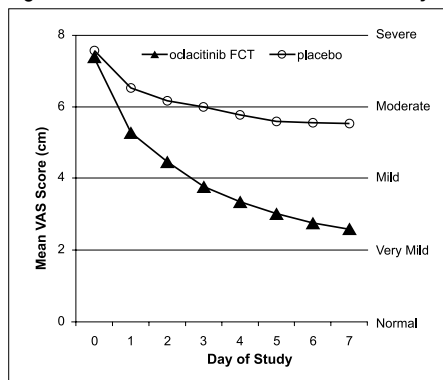
Owner-Assessed Pruritus VAS Treatment Success, Allergic Dermatitis

Effectiveness Parameter	oclacitinib FCT (n = 203)	Placebo (n = 204)	P-value
Estimated Proportion of Dogs with Treatment Success	0.67	0.29	p<0.0001

After one week of treatment, 86.4% of oclacitinib FCT group dogs compared with 42.5% of placebo group dogs had achieved a 2 cm reduction on the 10 cm Owner-assessed pruritus VAS. On each of the 7 days, mean Owner-assessed pruritus VAS scores were lower in dogs in the oclacitinib FCT group (see Figure 1). Veterinarians used a 10 cm VAS scale to assess each dog's dermatitis. After one week of treatment, the mean Veterinarian-assessed VAS dermatitis

score for the dogs in the oclacitinib FCT group was lower at 2.2 cm (improved from a baseline value of 6.2 cm) compared with the placebo group mean score of 4.9 cm (from a baseline value of 6.2 cm). For dogs that continued oclacitinib FCT treatment beyond one week, the Veterinarian-assessed dermatitis scores continued to improve through study end at Day 30.

Figure 1: Owner Assessed Pruritus VAS Scores by treatment for Days 0-7



### Palatability

In a well-controlled U.S. field study, in which 1,662 doses of APOQUEL CHEWABLE were administered to 120 dogs, a total of 1,522 doses (91.6%) were accepted voluntarily within 5 minutes. Of the 140 doses unconsumed after 5 minutes, 134 (8%) were consumed with assistance (with food treats or by pilling), and 6 (0.4%) doses were refused.

### Animal Safety:

#### Margin of Safety in 12 Month Old Dogs

Oclacitinib maleate was administered to healthy, one-year-old Beagle dogs twice daily for 6 weeks, followed by once daily for 20 weeks, at 0.6 mg/kg (1X maximum exposure dose, 8 dogs), 1.8 mg/kg (3X, 8 dogs), and 3.0 mg/kg (5X, 8 dogs) oclacitinib for 26 weeks. Eight dogs received placebo (empty gelatin capsule) at the same dosage schedule. Clinical observations that were considered likely to be related to oclacitinib maleate included papillomas and a dose-dependent increase in the number and frequency of interdigital furunculosis (cysts) on one or more feet during the study. Additional clinical observations were primarily related to the interdigital furunculosis and included dermatitis (local alopecia, erythema, abrasions, scabbing/crusts, and edema of feet) and lymphadenopathy of peripheral nodes. Microscopic findings considered to be related to oclacitinib maleate-related included decreased cellularity (lymphoid) in Gut-Associated Lymphoid Tissue (GALT), spleen, thymus, cervical and mesenteric lymph node; and decreased cellularity of sternal and femoral bone marrow. Lymphoid hyperplasia and chronic active inflammation was seen in lymph nodes draining feet affected with interdigital furunculosis. Five oclacitinib maleate-treated dogs had microscopic evidence of mild interstitial pneumonia. Clinical pathology findings considered to be oclacitinib maleate-related included mild, dose-dependent reduction in hemoglobin, hematocrit, and reticulocyte counts during the twice daily dosing period with decreases in the leukocyte subsets of lymphocytes, eosinophils, and basophils. Total proteins were decreased over time primarily due to the albumin fraction.

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#### Margin of Safety in 6 Month Old Dogs

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#### Storage Conditions:

APOQUEL CHEWABLE should be stored at controlled room temperature between 20° to 25°C (68° to 77°F) with excursions between 15° to 40°C (59° to 104°F).

#### How Supplied:

APOQUEL CHEWABLE tablets contain 3.6 mg, 5.4 mg, or 16 mg of oclacitinib as oclacitinib maleate per tablet. Each strength chewable tablets are packaged in 100 and 250 count bottles. Each chewable tablet is pentagon shaped, scored on both sides and have a dose descriptor (S, M, M or L, L) debossed on one face across the score line. The S (small), M (medium) and L (large) markings correspond to the tablet strengths of 3.6 mg, 5.4 mg and 16 mg respectively.

Approved by FDA under NADA # 141-555

**zoetis**

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April 2023

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