

**CERENIA- maropitant citrate tablet**  
**Zoetis Inc.**

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**Cerenia®**  
**(maropitant citrate)**  
**Tablets**

**Antiemetic**

**For oral use in dogs only**

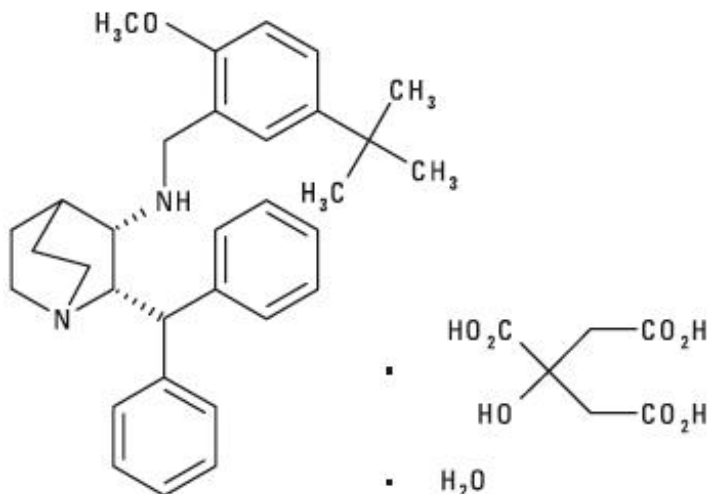
**Caution**

Federal law restricts this drug to use by or on the order of a licensed veterinarian.

**DESCRIPTION**

Maropitant is a neurokinin (NK<sub>1</sub>) receptor antagonist that blocks the pharmacological action of substance P in the central nervous system (CNS). Maropitant is the non-proprietary designation for a substituted quinuclidine. The empirical formula is C<sub>32</sub>H<sub>40</sub>N<sub>2</sub>O · C<sub>6</sub>H<sub>8</sub>O<sub>7</sub> · H<sub>2</sub>O and the molecular weight 678.81. The chemical name is (2*S*,3*S*)-2-benzhydryl-*N*-(5-*tert*-butyl-2-methoxybenzyl) quinuclidin-3-amine citrate monohydrate. Each peach-colored oval tablet is scored and contains 16, 24, 60 or 160 mg of maropitant as maropitant citrate per tablet.

The chemical structure of maropitant citrate is:



**INDICATIONS**

CERENIA (maropitant citrate) Tablets are indicated for the prevention of acute vomiting and the prevention of vomiting due to motion sickness in dogs.

## DOSAGE AND ADMINISTRATION:

### For Prevention of Acute Vomiting

**For Prevention of Acute Vomiting in dogs 2 -7 months of age:** Administer CERENIA Tablets orally at a minimum dose of 2 mg/kg (0.9 mg/lb) body weight once daily for up to 5 consecutive days (see WARNINGS and Animal Safety).

**For Prevention of Acute Vomiting in dogs 7 months of age and older:** Administer CERENIA Tablets orally at a minimum dose of 2 mg/kg (0.9 mg/lb) body weight once daily until resolution of acute vomiting.

If vomiting persists despite treatment, the case should be re-evaluated. CERENIA is most effective in preventing acute vomiting associated with chemotherapy if administered prior to the chemotherapeutic agent.

**For prevention of acute vomiting, dispense whole or half tablets in strength(s) that most closely result in a 2 mg/kg dose:**

Dog body weight		Number of Tablets		
Pounds	Kilograms	16 mg	24 mg	60 mg
8	4	½		
15	8	1		
25	12		1	
50	24		2	
65	30			1
130	60			2

### **Interchangeable use with CERENIA Injectable Solution for Prevention of Acute Vomiting:**

In dogs that are actively vomiting, to ensure that the full initial dose is administered, **CERENIA Injectable Solution is recommended at a dose of 1 mg/kg once daily.** (See package insert for CERENIA injectable solution.) Thereafter, for the prevention of acute vomiting, **CERENIA Tablets at a dose of 2 mg/kg once daily** may be used interchangeably with CERENIA Injectable Solution for up to 5 days.

### **For Prevention of Vomiting Due to Motion Sickness in dogs 4 months and older**

**For Prevention of Vomiting due to motion sickness in dogs 4 months of age and older:** Administer CERENIA Tablets orally at a minimum dose of 8 mg/kg (3.6 mg/lb) body weight once daily for up to 2 consecutive days (see WARNINGS and Animal Safety).

Administer CERENIA Tablets a minimum of two hours prior to travel with a small amount of food to mitigate vomiting associated with administration of the dose on an empty stomach; however, refrain from feeding a full meal prior to travel.

**Prevention of Vomiting Due to Motion Sickness in Dogs 4 months of age and older:**

**Dispense whole or half tablets in strengths that most closely result in an 8 mg/kg dose once daily for up to 2 consecutive days :**

<b>Dog body weight</b>		<b>Number of tablets</b>			
<b>Pounds</b>	<b>Kilograms</b>	<b>16mg</b>	<b>24mg</b>	<b>60mg</b>	<b>160mg</b>
2	1	1/2			
3	1.5		1/2		
4	2	1			
6	3		1		
8	4	2			
13	6		2		
16	7.5			1	
22	10				1/2
33	15			2	
44	20				1
66	30				1 1/2
88	40				2
132	60				3

CERENIA injectable solution should not be used interchangeably with CERENIA tablets for the prevention of vomiting due to motion sickness (8mg/kg).

## **WARNINGS**

Not for use in humans. Keep out of the reach of children. In case of accidental ingestion, seek medical advice. Topical exposure may elicit localized allergic skin reactions in some individuals. Repeated or prolonged exposure may lead to skin sensitization. Wash hands with soap and water after administering drug. CERENIA is also an ocular irritant. In case of accidental eye exposure, flush with water for 15 minutes and seek medical attention.

In puppies younger than 11 weeks of age, histological evidence of bone marrow hypocellularity was observed at higher frequency and greater severity in puppies treated with CERENIA compared to control puppies. In puppies 16 weeks and older, bone marrow hypocellularity was not observed (see **ANIMAL SAFETY**).

## **PRECAUTIONS**

The safe use of CERENIA Tablets has not been evaluated in dogs used for breeding, or in pregnant or lactating bitches.

The safe use of CERENIA has not been evaluated in dogs with gastrointestinal obstruction, or dogs that have ingested toxins.

Use with caution in dogs with hepatic dysfunction because CERENIA is metabolized by CYP3A enzymes (see **Pharmacokinetics**). Use with caution with other medications that are highly protein bound. The concomitant use of CERENIA with other protein bound drugs has not been studied in dogs. Commonly used protein bound drugs include

NSAIDs, cardiac, anticonvulsant, and behavioral medications. The influence of concomitant drugs that may inhibit the metabolism of CERENIA has not been evaluated. Drug compatibility should be monitored in patients requiring adjunctive therapy.

CERENIA causes dose related decreases in appetite and body weight (see **ANIMAL SAFETY**). To maximize therapeutic potential of CERENIA, the underlying cause of vomiting should be identified and addressed in dogs receiving CERENIA.

## **ADVERSE REACTIONS**

### **Prevention of Acute Vomiting (minimum of 2 mg/kg)**

The following adverse reactions were reported during the course of a US field study for the prevention of acute vomiting in dogs treated with CERENIA Tablets at a minimum of 2 mg/kg orally and/or Injectable Solution at 1 mg/kg subcutaneously once daily for up to 5 consecutive days:

#### **Frequency of Adverse Reactions by Treatment**

<b>Adverse Reaction</b>	<b>Placebo (n=69)</b>		<b>CERENIA (n=206)</b>	
	<b># dogs</b>	<b>% occurrence</b>	<b># dogs</b>	<b>% occurrence</b>
Death during study	4	5.8	10	4.9
Euthanized during study	0	0	2	1
Diarrhea	6	8.7	8	3.9
Hematochezia/bloody stool	5	7.2	4	1.9
Anorexia	2	2.9	3	1.5
Otitis/Otorrhea	0	0	3	1.5
Endotoxic Shock	1	1.4	2	1
Hematuria	0	0	2	1
Excoriation	0	0	2	1

Other clinical signs were reported but were <0.5% of dogs.

### **Prevention of Vomiting Due to Motion Sickness (minimum of 8 mg/kg)**

The following adverse reactions were reported during US studies for the prevention of vomiting due to motion sickness in dogs treated with CERENIA Tablets at a minimum of 8 mg/kg orally one time. Dogs may have experienced more than one of the observed adverse reactions.

<b>Frequency of Adverse Reactions by Treatment</b>				
<b>Adverse Reaction</b>	<b>Placebo (n=195)</b>		<b>CERENIA (n=208)</b>	
	<b># dogs</b>	<b>% occurrence</b>	<b># dogs</b>	<b>% occurrence</b>
Hypersalivation	19	9.7	26	12.5
Vomiting*	0	0	11	5.3
Muscle Tremors	1	0.5	2	1
Sedation/Depression	3	1.5	2	1
Retching	3	1.5	1	0.5

Flatulence	0	0	1	0.5
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The following adverse reactions were reported during a European field study for the prevention of vomiting due to motion sickness in dogs treated with CERENIA Tablets at a minimum of 8 mg/kg orally once daily for 2 consecutive days. Dogs may have experienced more than one of the observed adverse reactions.

\*Not associated with motion sickness.

<b>Frequency of Adverse Reactions by Treatment</b>				
<b>Adverse Reaction</b>	<b>Placebo (n=106)</b>		<b>CERENIA (n=107)</b>	
	<b># dogs</b>	<b>% occurrence</b>	<b># dogs</b>	<b>% occurrence</b>
Vomiting	4	4	10	9
Drowsiness/Lethargy/Apathy	1	1	8	8
Hypersalivation	2	2	5	5
Anxiety	0	0	2	2
Trembling/Tremors	0	0	2	2
Inappetence	0	0	2	2
Mucus in stool	0	0	1	1

The following Adverse Reactions were reported during the conduct of a US clinical field trial where CERENIA Tablets were administered once daily for 28 consecutive days to 32 dogs: lethargy, vomiting, inappetence, corneal edema, and enlarged lymph nodes.

### **Post-Approval Experience (Revised May 2019)**

The following adverse events are based on post-approval adverse drug experience reporting. 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 for dogs are listed in decreasing order of frequency:

anorexia, depression/lethargy, hypersalivation, vomiting, diarrhea, trembling, ataxia, allergic reactions, weight loss, convulsion, hyperactivity, and panting.

Cases of ineffectiveness have been reported.

Cases of death (including euthanasia) have been reported.

To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, 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 <http://www.fda.gov/AnimalVeterinary/SafetyHealth>

## **CLINICAL PHARMACOLOGY**

### **Pharmacokinetics**

**Mean ( $\pm$ SD) Plasma Pharmacokinetic Parameters for Maropitant in Beagle Dogs after single dose and repeat oral doses of Maropitant:**

<b>PK Parameter</b>	<b>2 mg/kg Single Dose</b>	<b>2 mg/kg repeat Doses<sup>1</sup></b>	<b>8 mg/kg Single Dose</b>	<b>8 mg/kg repeat Doses<sup>1</sup></b>
<b>T<sub>max</sub><sup>2</sup> (hr)</b>	2.0 (1.5 - 3.0)	1.5 (1.0 - 3.0)	1.5 (1.0 - 3.0)	2.5 (1.5 - 7.0)
<b>C<sub>max</sub> (ng/mL)</b>	154 (111)	304 (165)	588 (416)	1409 (516)
<b>AUC(0-24) (ng*hr/mL)</b>	1440 (982)	3890 (3030)	6730 (5030)	26600 (9200)
<b>T<sub>1/2</sub> (hr)</b>	NC	7.69 (6.21 - 17.8)	NC	25.4 (6.06 - 30.0)
<b>Accumulation Ratio (Rac)<sup>3</sup></b>	NA	2.46 (1.68, 3.61)	NA	4.81 (3.28, 7.05)

<sup>1</sup>Following once daily doses of maropitant for 14 days.

<sup>2</sup>Median (Range)

<sup>3</sup>Ratio=Multiple Dose AUC(0-24)/Single Dose AUC(0-24), Least square means (95% Confidence Interval)

NA= Not Applicable

NC= Not Calculated

Following oral administration, median time to reach C<sub>max</sub> was within 2.5 hr. The absolute bioavailability of maropitant was low (24%) following oral administration of 2 mg/kg maropitant. After an oral dose, prandial status does not significantly affect the extent of oral bioavailability. Greater than dose-proportional drug exposure can be expected with an increase in dose (1-16 mg/kg PO). However as doses increase (20-50 mg/kg PO), the dose proportionality is re-established. Based upon *in vitro* enzyme kinetics, involvement of a high capacity enzyme (CYP3A12) may contribute to this return to dose linearity. Due to dose dependent pharmacokinetics, the maropitant concentrations reached steady state approximately after 4 and 8 days following 2 and 8 mg/kg, respectively. The observed drug accumulation ratios were 2.46 and 4.81, after oral administration of 2 and 8 mg/kg, respectively. The exposure of 10 week old puppies to maropitant was lower than that observed in adult dogs, particularly after repeat doses of 1 or 2 mg/kg. Systemic clearance of maropitant following IV administration was 970, 995, and 533 mL/hr/kg at doses of 1, 2 and 8 mg/kg, respectively.

Urinary recovery of maropitant and its major metabolite was minimal (<1% each). The hepatic metabolism of maropitant involves two cytochrome P-450 isoenzymes: CYP2D15 and CYP3A12. In *in vitro* enzyme kinetics data suggest that the non-linear kinetics may be partially associated with saturation of the low capacity enzyme (CYP2D15). Plasma

protein binding of maropitant was high (99.5%).

## **Pharmacodynamics**

Vomiting is a complex process coordinated centrally by the emetic center which consists of several brainstem nuclei (area postrema, nucleus tractus solitarius, dorsal motor nucleus of the vagus) that receive and integrate sensory stimuli from central and peripheral sources and chemical stimuli from the circulation and the cerebro-spinal fluid. Maropitant is a neurokinin 1 (NK1) receptor antagonist which acts by inhibiting the binding of substance P, a neuropeptide of the tachykinin family. Substance P is found in significant concentrations in the nuclei comprising the emetic center and is considered the key neurotransmitter involved in emesis.<sup>1</sup> By inhibiting the binding of substance P within the emetic center, maropitant provides broad-spectrum effectiveness against neural (central) and humoral (peripheral) causes of vomiting. *In vivo* model studies in dogs have shown that maropitant has antiemetic effectiveness against both central and peripheral emetogens including apomorphine, and syrup of ipecac.

<sup>1</sup>Diemunsch P, Grelot L. Potential of substance P antagonists as antiemetics. [Review] [60 refs]. *Drugs*. 2000;60:533-46.

## **EFFECTIVENESS**

### **Prevention of Acute Vomiting**

In laboratory model studies, CERENIA Tablets dosed at a minimum of 2 mg/kg BW reduced the number of emetic events associated with established neural (central) and humoral (peripheral) stimuli. Following administration of apomorphine (central emetic stimuli), vomiting was observed in 33% (4 of 12) of Beagle dogs treated with CERENIA Tablets and 100% (12 of 12) of Beagle dogs treated with placebo tablets. Following administration of syrup of ipecac (peripheral emetic stimuli) vomiting was observed in 33% (4 of 12) of Beagle dogs treated with CERENIA Tablets and in 83% (10 of 12) of Beagle dogs treated with placebo tablets.

In a study of 275 canine patients presented to veterinary hospitals with a history of acute vomiting, dogs were initially administered CERENIA Injectable Solution or placebo on Day 0. Following the initial dose, dogs allocated to the CERENIA group were treated with either CERENIA Tablets at a minimum of 2 mg/kg orally or Injectable Solution at 1 mg/kg subcutaneously once daily at the discretion of the clinician. Dogs allocated to the placebo group were treated using either an injectable placebo solution or placebo tablets once daily at the discretion of the clinician. Of the 199 dogs included in the analysis for effectiveness, 27 of 54 dogs (50%) in the placebo group displayed vomiting at some time during the study and 31 of 145 dogs (21.4%) in the treated group displayed vomiting during the study period.

### **Percent Of Vomiting For Each Study Day, Based Upon Treatment And Route Of Administration.**

<b>Days</b>	<b>Treatment</b>	<b>Route</b>	<b># dogs</b>	<b># vomited</b>	<b>% vomited</b>
<b>Day 0</b>	Placebo (54)	SC	54	15	28%
	CERENIA (145)	SC	145 (143*)	14	10%

<b>Day 1</b>	Placebo (45)	PO	22	3	14%
		SC	23	16	70%
	CERENIA (108)	PO	67	2	3%
		SC	41	16	39%
<b>Day 2</b>	Placebo (16)	PO	7	2	29%
		SC	9	6	67%
	CERENIA (37)	PO	24	0	0%
		SC	13	8	62%
<b>Day 3</b>	Placebo (6)	PO	2	0	0%
		SC	4	1	25%
	CERENIA (21)	PO	14	0	0%
		SC	7	5	71%
<b>Day 4</b>	Placebo (2)	PO	1	0	0%
		SC	1	1	100%
	CERENIA (7)	PO	5	0	0%
		SC	2	1	50%
<b>Day 5</b>	CERENIA (1)	SC	1	0	0%

\* 2 dogs administered CERENIA were not observed on Day 0. Their vomiting status was unknown. 143 was used in the denominator for % vomited.

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In US field studies in veterinary patients, CERENIA Tablets and Injectable Solution were well tolerated in dogs presenting with various conditions including parvovirus, gastroenteritis, and renal disease. There were no notable differences in mean laboratory values between CERENIA-treated and placebo-treated patients.

CERENIA Tablets were used safely in dogs receiving other frequently used veterinary products such as fluid and electrolyte replacement solutions, antimicrobial agents, vaccines, antacids, and antiparasitic agents

### **Prevention of Vomiting due to Motion Sickness**

In a study of canine veterinary patients taken on a one-hour car journey and treated with either CERENIA Tablets at a minimum dose of 8 mg/kg BW or placebo tablets 2 hours prior to the journey, 67 of 122 (55%) of dogs vomited during the journey when treated with placebo while 8 of 122 (7%) vomited during the journey after treatment with CERENIA Tablets. The probability that a dog in this study, prone to motion sickness would NOT vomit during a journey if treated with CERENIA Tablets was 93%, while the probability was 48% if treated with placebo.



## **ANIMAL SAFETY**

Laboratory and field studies have demonstrated that CERENIA Tablets are well tolerated in dogs after oral administration.

### **Target Animal Safety Study for Acute Vomiting**

Fifty six Beagle dogs (28 males and 28 females) approximately 16 weeks of age were administered CERENIA Tablets orally once daily for 15 days at 0, 2, 6, and 10 mg/kg. There were 8 dogs (4 males and 4 females) in the 2 mg/kg group and 16 dogs (8 males and 8 females) in all other groups. CERENIA Tablets caused decreases in food consumption and body weight that were not dose-dependent and did not persist after cessation of treatment.

Beagle dogs approximately 8 weeks of age were administered CERENIA Tablets orally once daily for 15 days at 0, 2, 6, and 10 mg/kg using a protocol similar to the previous study. A dose dependent increase in severity of bone marrow hypoplasia was observed histologically. Interpretation of these study results is complicated by the health status of study animals. Dogs used in the study were weaned early, minimally acclimated to the test facility, many of the dogs in the study tested positive for coccidia and some tested positive for canine parvovirus.

Beagle dogs approximately 10 weeks of age were administered either placebo tablets for 2 days, CERENIA Tablets at 8 mg/kg for 2 days, placebo (saline) subcutaneously (SC) for 5 days, CERENIA Injectable Solution at 1 mg/kg SC for 5 days, or CERENIA Tablets at 2 mg/kg for 5 days (8 dogs in each dose group). Mild pain associated with injection was noted in more dogs and lasted longer in dogs that received maropitant injections compared to saline. Males administered CERENIA at 8 mg/kg orally for 2 days had a decrease in food consumption. Body weight and food consumption were variable throughout the 4 week acclimation period. Two dogs that received 8 mg/kg maropitant orally for 2 days were below the reference range for reticulocyte counts. Decreases in reticulocyte counts were also seen in 4 (of 8) placebo treated dogs (SC saline for 5 days). Hypocellular femoral bone marrow described as "minimal" was seen in 1 male that received 1 mg/kg maropitant SC for 5 days; reticulocyte counts were not available for this dog.

Twenty four Beagle dogs (12 males and 12 females) 7 months of age were administered maropitant at doses of 0, 1, 5, and 20 mg/kg orally once daily for 93 consecutive days. Maropitant produced sporadic clinical signs (salivation, emesis), body weight loss, and lower serum albumin levels at 20 mg/kg/day.

Maropitant increased P-R interval, P wave duration, and QRS amplitude in the 20 mg/kg /day dose group.

One female in the 20 mg/kg/day group had increased cellularity of the bone marrow. This female was noted to have lower mean red cell parameters (red blood cell count, hemoglobin, hematocrit) and higher platelet counts and reticulocytes.

### **Target Animal Safety Study for Motion Sickness**

Forty Beagle dogs (20 males and 20 females) between 16 – 18 weeks of age were administered CERENIA Tablets orally once daily for 6 days at 0, 8 and 24 mg/kg. There were 16 dogs (8 males and 8 females) in the 0 and 24 mg/kg groups and 8 dogs (4 males and 4 females) in the 8 mg/kg group. At 24 mg/kg, CERENIA Tablets caused

decreases in food consumption, with decreases in body weight, liver and testis weight; and an increase in RBC count indicating hemoconcentration, but the effects on feed consumption, body weight, and RBCs did not persist in the post-treatment recovery period (beyond Day 5).

Beagle dogs approximately 8 weeks of age were administered CERENIA Tablets orally once daily for 6 days at 0, 8, and 24 mg/kg using a protocol similar to the previous study. One dog in the 24 mg/kg/day group died of unknown causes on study day 2 and a dose dependent increase in occurrence and severity of bone marrow hypoplasia and lymphoid depletion was observed histologically. Interpretation of these study results is complicated by the health status of study animals. Dogs used in the study were weaned early, minimally acclimated to the test facility, and many of the dogs in the study tested positive for coccidia. Additionally, some dogs in the study tested positive for canine parvovirus, however, clinical parvoviral disease was not definitively diagnosed.

### **Tolerance Studies**

Twenty four Beagle dogs (14 males and 10 females) between 11 and 25 weeks of age were administered CERENIA Tablets in 2 phases with 8 dogs per group. In the first phase the dogs were administered 0, 20 or 30 mg/kg orally once daily for 7 days and in the second phase 0, 40, or 50 mg/kg once daily for 7 days.

CERENIA Tablets administered at 20 and 30 mg/kg caused occasional vomiting. CERENIA Tablets administered at 40 mg/kg and 50 mg/kg caused clinically relevant signs of weight loss, vomiting, soft stools, weakness, lethargy, salivation and hypokalemia. Additionally, leukopenia characterized by a neutropenia and a trend toward decreasing plasma phosphorus values was seen. Decreased heart rate and prolonged corrected QT intervals were seen in all treatment groups in a dose dependent manner.

Twenty-four Beagle dogs (12 males and 12 females) approximately 28 weeks of age were administered maropitant (mesylate salt) orally once daily for 90 days at 0, 1, 5, and 20 mg/kg. End of study body weights in the 20 mg/kg group were 8-15% lower than baseline body weights.

### **STORAGE CONDITIONS**

CERENIA Tablets should be stored at controlled room temperature 20°–25°C (68°–77°F) with excursions between 15°–30°C (59°–86°F).

### **HOW SUPPLIED**

CERENIA peach-colored tablets are scored with a break line, and contain 16, 24, 60 or 160 mg of maropitant as maropitant citrate per tablet. Each tablet is marked with "MPT" and the tablet strength. Each tablet size is packaged in a bottle containing 60 tablets and packaged in blister packs containing 4 tablets per perforated sheet.

Approved by FDA under NADA # 141-262

zoetis

Distributed by:  
Zoetis Inc.

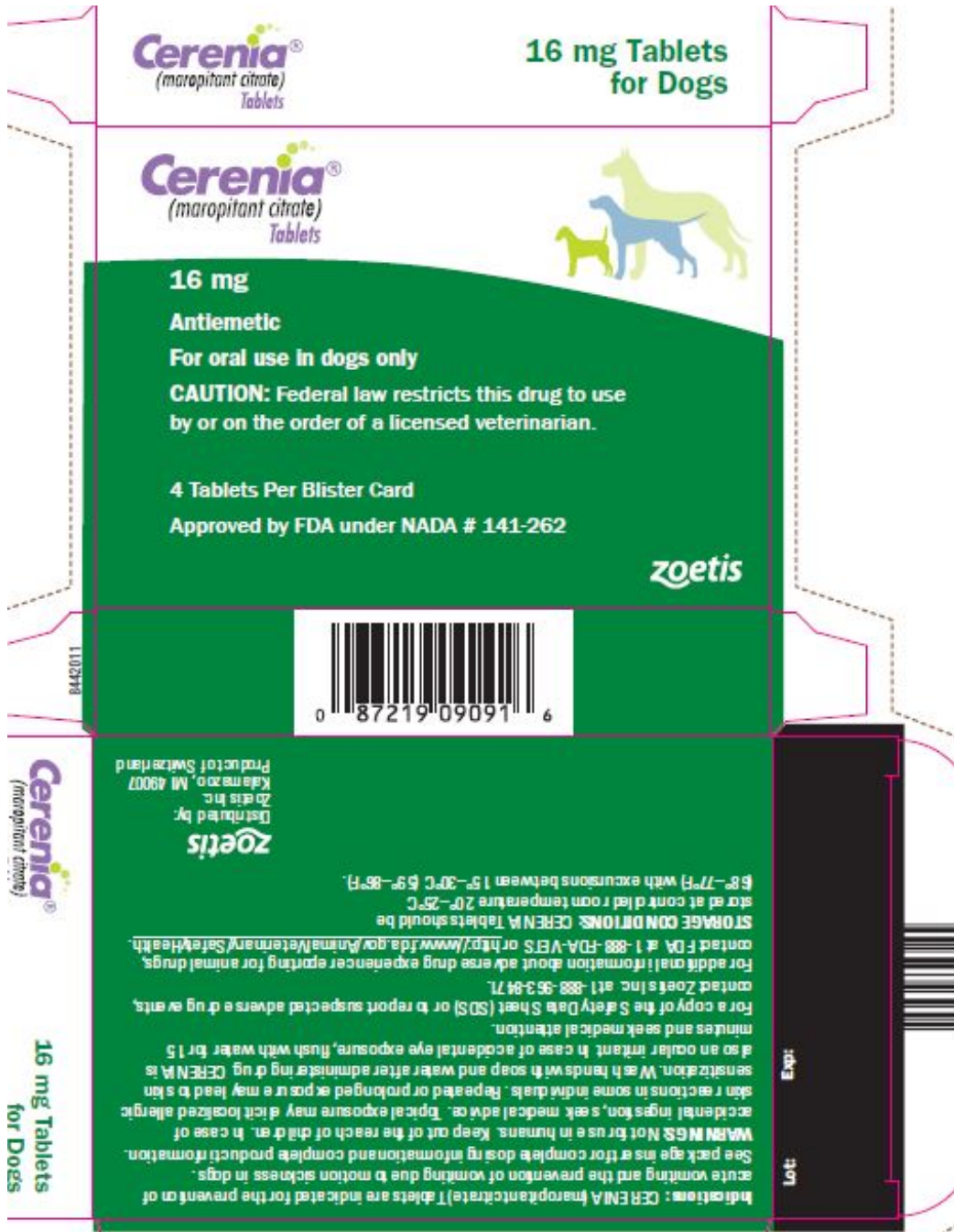
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Product of Ireland

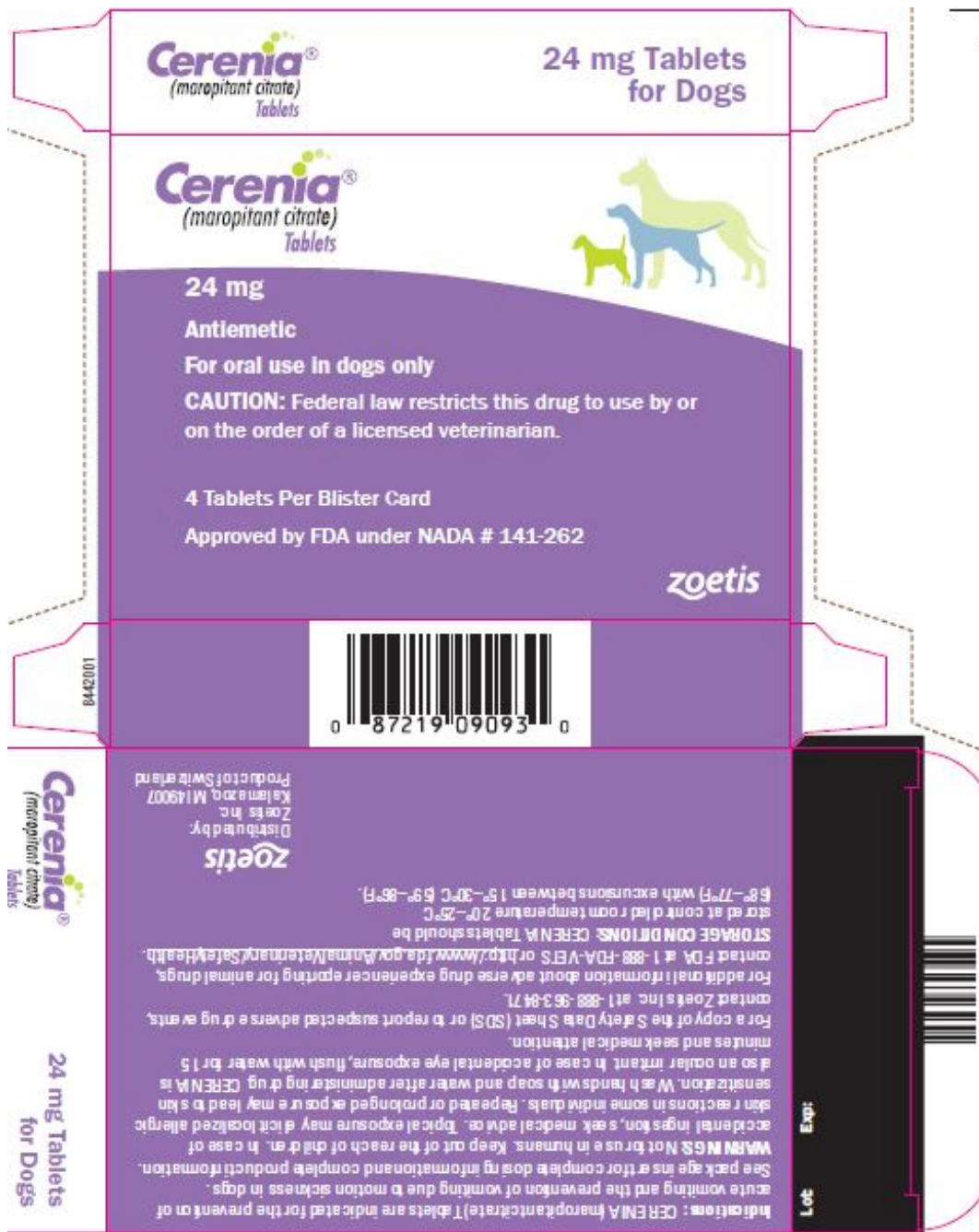
Revised: January 2020

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### PRINCIPAL DISPLAY PANEL - 16 mg Tablet Blister Pack Label



### PRINCIPAL DISPLAY PANEL - 24 mg Tablet Blister Pack Label

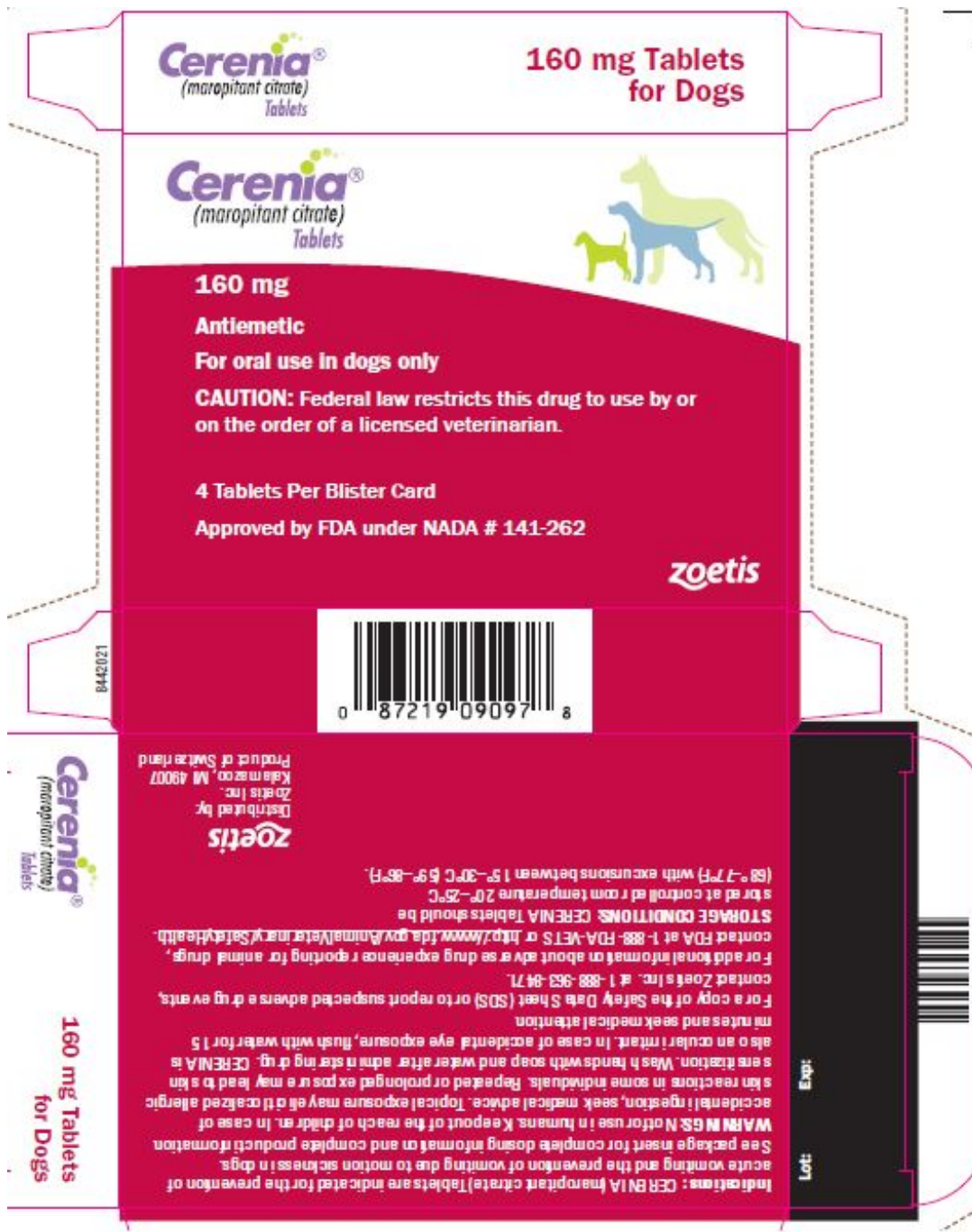


**PRINCIPAL DISPLAY PANEL - 60 mg Tablet Blister Pack Label**



**PRINCIPAL DISPLAY PANEL - 160 mg Tablet Blister Pack Label**





## CERENIA

maropitant citrate tablet

### Product Information

<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:54771-8180
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MAROPITANT CITRATE (UNII: LXN6S3999X) (MAROPITANT - UNII:4XE2T9H4DH)	MAROPITANT	16 mg

## Product Characteristics

<b>Color</b>	orange (Peach)	<b>Score</b>	2 pieces
<b>Shape</b>	OVAL	<b>Size</b>	9mm
<b>Flavor</b>		<b>Imprint Code</b>	MPT;16
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:54771-8180-1	60 in 1 BOTTLE		
2	NDC:54771-8180-2	4 in 1 BLISTER PACK		
3	NDC:54771-8180-3	10 in 1 CARTON		
3		4 in 1 BLISTER PACK		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NADA	NADA141262	01/29/2007	

## CERENIA

maropitant citrate tablet

### Product Information

<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:54771-8181
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>MAROPITANT CITRATE</b> (UNII: LXN6S3999X) (MAROPITANT - UNII:4XE2T9H4DH)	MAROPITANT	24 mg

### Product Characteristics

<b>Color</b>	orange (Peach)	<b>Score</b>	2 pieces
<b>Shape</b>	OVAL	<b>Size</b>	11mm
<b>Flavor</b>		<b>Imprint Code</b>	MPT;24
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:54771-8181-2	4 in 1 BLISTER PACK		
2	NDC:54771-8181-1	60 in 1 BOTTLE		

3	NDC:54771-8181-3	10 in 1 CARTON		
3		4 in 1 BLISTER PACK		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>		<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NADA	NADA141262		01/29/2007	

<b>CERENIA</b>				
maropitant citrate tablet				
<b>Product Information</b>				
<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:54771-8182	
<b>Route of Administration</b>	ORAL			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>			<b>Basis of Strength</b>	<b>Strength</b>
MAROPITANT CITRATE (UNII: LXN6S3999X) (MAROPITANT - UNII:4XE2T9H4DH)			MAROPITANT	60 mg
<b>Product Characteristics</b>				
<b>Color</b>	orange (Peach)	<b>Score</b>	2 pieces	
<b>Shape</b>	OVAL	<b>Size</b>	14mm	
<b>Flavor</b>		<b>Imprint Code</b>	MPT;60	
<b>Contains</b>				
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:54771-8182-1	60 in 1 BOTTLE		
2	NDC:54771-8182-2	4 in 1 BLISTER PACK		
3	NDC:54771-8182-3	10 in 1 CARTON		
3		4 in 1 BLISTER PACK		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>		<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NADA	NADA141262		01/29/2007	

<b>CERENIA</b>				
maropitant citrate tablet				



## Product Information

<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:54771-8183
<b>Route of Administration</b>	ORAL		

## Active Ingredient/Active Moiety

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>MAROPITANT CITRATE</b> (UNII: LXN6S3999X) (MAROPITANT - UNII:4XE2T9H4DH)	MAROPITANT	160 mg

## Product Characteristics

<b>Color</b>	orange (Peach)	<b>Score</b>	2 pieces
<b>Shape</b>	OVAL	<b>Size</b>	19mm
<b>Flavor</b>		<b>Imprint Code</b>	MPT;160
<b>Contains</b>			

## Packaging

<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:54771-8183-2	4 in 1 BLISTER PACK		
2	NDC:54771-8183-1	60 in 1 BOTTLE		
3	NDC:54771-8183-3	5 in 1 CARTON		
3		4 in 1 BLISTER PACK		

## Marketing Information

<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NADA	NADA141262	01/29/2007	

**Labeler** - Zoetis Inc. (828851555)

Revised: 8/2022

Zoetis Inc.