

CHANGES IN YOUR DOG'S EATING BEHAVIOR?

Why pay attention to your dog's eating behavior?

When your dog isn't eating the way they should, it may be a warning sign. Many times reduced eating is the first sign – and may be the only sign – that your dog is sick.

CHANGES IN APPETITE

What to look for:

- Eating less
- Picking at food or taking more time to eat
- Only eating treats or people food
- Not eating at all
- Physical changes like weight loss

Common causes:

- Chronic medical conditions
 - » Kidney disease
 - » Heart disease
 - » Gastrointestinal disorders
 - » Cancer
- Medication side effects

Reasons to treat

It is important to make sure your dog is getting enough nutrition, especially when your veterinarian is treating your dog for a medical condition.

Why nutrition is important:

- Proper nutrition makes it easier to fight illnesses and infections
- Appropriate food intake helps maintain muscle strength
- A dog that is eating well will have energy to stay
 active

Talk to your veterinarian if you've noticed changes in your dog's eating.



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

Your veterinarian can help get your dog eating

ENTYCE® (capromorelin oral solution) is a prescription product that can help increase your dog's appetite.

- Proven safe and effective to improve your dog's appetite so they get the nutrition they need to be happy and active
- Your veterinarian may recommend use for as long as needed



Convenient, once-daily dosing

ENTYCE[®] (capromorelin oral solution) provides a flavored oral solution that is convenient to administer once daily.

2 easy steps:



Insert the syringe into the bottle to draw out the amount of liquid prescribed by your veterinarian.



Insert the syringe into your dog's mouth and press the plunger to dispense the entire dose. Rinse the syringe with water when finished dosing.

HELP IMPROVE THEIR APPETITE. ASK HOW TODAY.

For more information, visit www.entyce.aratana.com/petowners.

IMPORTANT SAFETY INFORMATION: ENTYCE® (capromorelin oral solution) is for use in dogs only. Do not use in breeding, pregnant or lactating dogs. Use with caution in dogs with hepatic dysfunction or renal insufficiency. Adverse reactions in dogs may include diarrhea, vomiting, polydipsia, and hypersalivation. Should not be used in dogs that have a hypersensitivity to capromorelin. Please see the enclosed full Prescribing Information for more detail.





(capromorelin oral solution)

30 mg/mL

For oral use in dogs only

Appetite Stimulant

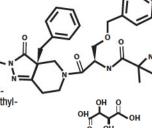
Caution:

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

Description:

ENTYCE (capromorelin oral solution) is a selective

ghrelin receptor agonist that binds to receptors and affects signaling in the hypothalamus to cause appetite stimulation and binds to the growth hormone secretagogue receptor in the pituitary gland to increase growth hormone secretion. The empirical formula is C₂₈H₂₈N₂, C₄H₂₀ and the molecular weight 655.70. The chemical name is 2-amino-N-[2-(3aR-benzyl-2-methyl-3-oxo-2,3,3a,4,6,7hexahydro-pyrazolo[4,3-c]pyridin-5-yl)-1R-benzyloxymethyl-2-oxo-ethyl]-isobutyramide L-tartrate.



The chemical structure of capromorelin tartrate is:

Indication:

ENTYCE (capromorelin oral solution) is indicated for appetite stimulation in dogs. Dosage and Administration:

Administer ENTYCE orally at a dose of 3 mg/kg (1.4 mg/lb) body weight once daily.

To administer ENTYCE, gently shake the bottle, and then withdraw the appropriate amount of solution using the provided syringe.

Rinse syringe between treatment doses.

The effectiveness of ENTYCE has not been evaluated beyond 4 days of treatment in the clinical field study (See Effectiveness).

Contraindications:

ENTYCE should not be used in dogs that have a hypersensitivity to capromorelin.

Warnings:

Not for use in humans. Keep this and all medications out of reach of children and pets. Consult a physician in case of accidental ingestion by humans. For use in dogs only Precautions:

Use with caution in dogs with hepatic dysfunction. ENTYCE is metabolized by CYP3A4 and CYP3A5 enzymes (See Clinical Pharmacology).

Use with caution in dogs with renal insufficiency. ENTYCE is excreted approximately 37% in urine and 62% in feces (See Adverse Reactions and Clinical Pharmacology).

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

Adverse Reactions:

In a controlled field study, 244 dogs were evaluated for safety when administered either ENTYCE or a vehicle control (solution minus capromorelin) at a dose of 3 mg/kg once daily for 4 days. Enrolled dogs had a reduced or absent appetite for a minimum of 2 days prior to day 0 and had various medical conditions: arthritis (40); gastrointestinal disease (24); allergy (22); dental disease (22); cardiovascular disease (16); renal disease (13); and others. Some dogs may have experienced more than one of the adverse reactions during the study. The following adverse reactions were observed:

Table 1: Adverse Reactions reported in dogs administered ENTYCE oral solution compared to vehicle control

| Adverse Reactions | ENTYCE (n = 171) n (%) | Vehicle Control (n = 73) n (%) |
|------------------------------|---------------------------|-----------------------------------|
| GASTROINTESTINAL | | |
| Diarrhea | 12 (7.0 %) | 5 (6.8 %) |
| Vomiting | 11 (6.4 %) | 4 (5.5 %) |
| Hypersalivation | 4 (2.3 %) | 0 (0.0 %) |
| Abdominal discomfort | <mark>2 (1.2 %)</mark> | 0 (0.0 %) |
| Flatulence | <mark>2 (1.2 %)</mark> | 0 (0.0 %) |
| Nausea | <mark>2 (1.2 %)</mark> | 0 (0.0 %) |
| CLINICAL PATHOLOGY | | |
| Elevated blood urea nitrogen | 7 (4.1 %) | 2 (2.7 %) |
| Elevated phosphorus | 4 (2.3 %) | 1 (1.4 %) |
| Elevated creatinine | 1 (0.6 %) | 1 (1.4 %) |
| OTHER | | |
| Polydipsia | 7 (4.1 %) | 1 (1.4 %) |
| Lethargy/depression | 2 (1.2 %) | 0 (0.0 %) |

The following adverse reactions were reported in < 1% of dogs administered ENTYCE: hyperactivity, increase fecal volume, increase gut sounds, and polyuria.

To report suspected adverse events, for technical assistance or to obtain a copy of the Safety Data Sheet (SDS), contact Elanco US Inc. at 1-888-545-5973. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or http://www.fda.gov/reportanimalae.

Clinical Pharmacology:

Following oral administration of ENTYCE at a dose of 3 mg/kg to 12 Beagle dogs, absorption of capromorelin was rapid with the maximum concentration (C_{max}) reached within 0.83 hr (T_{max}). After C_{max} the plasma concentrations declined mono-exponentially with a short terminal half-life ($T_{i,j}$) of approximately 1.19 hrs. There were no gender differences in capromorelin pharmacokinetics. The exposure (C_{max} and AUC) of capromorelin increased with dose, but the increases were not dose proportional following single and repeat once daily administrations of capromorelin. There was no drug accumulation following repeat oral administration.

Table 2. Plasma PK parameters following oral administration of 3 mg/kg of ENTYCE

| Parameter | Mean | SD |
|-------------------------------|------|------|
| T _{max} (hr) | 0.83 | 0.58 |
| C _{max} (ng/mL) | 330 | 143 |
| AUC, (ng*hr/mL) | 655 | 276 |
| AUC _{inf} (ng*hr/mL) | 695 | 262 |
| T _{1%} (hr) | 1.19 | 0.17 |

The mean absolute oral bioavailability of capromorelin was 44%. The mean total plasma clearance and volume of distribution was 18.9 mL/min/kg and 2.0 L/kg, respectively. Capromorelin was not highly bound (unbound fraction 51%) to plasma protein. The protein binding was concentration-independent over the range of 10 to 1000 ng/mL. *In vitro* (human liver microsomes) and *in vivo* (rats) metabolism studies suggest that capromorelin is metabolized by hepatic enzymes, mainly CYP3A4 and CYP3A5. Therefore, drugs that inhibit CYP3A4 and CYP3A5 activity may affect capromorelin metabolism. Following oral administration of radio-labelled capromorelin to dogs, capromorelin was excreted in urine (37%) and in feces (62%) within 72 hours.

Effectiveness:

Laboratory Effectiveness Study: Twenty four healthy Beagle dogs (6 dogs per sex in each group) with normal appetite were randomized into two groups and dosed daily with ENTYCE (capromorelin oral solution) at 3 mg/kg/day or vehicle control (solution minus capromorelin) to compare food intake over a 4-day period. The dogs were 13 months of age and weighed between 6.5 and 12.5 kg at the time of randomization. Six dogs administered ENTYCE repeatedly exhibited salivation post dosing and two dogs administered vehicle control exhibited salivation only one time on study day 0. Emesis was observed in one dog administered ENTYCE on study day 1. Dogs administered ENTYCE at a dose of 3 mg/kg/day for 4 consecutive days had statistically significantly increased food consumption compared to the vehicle control group (p < 0.001).

<u>Clinical Field Study</u>: Effectiveness was evaluated in 177 dogs (121 dogs in the ENTYCE group and 56 dogs in the vehicle control group) in a double-masked, vehicle controlled field study. Dogs with a reduced appetite or no appetite, with various medical conditions, for a minimum of 2 days prior to day 0 were enrolled in the study. The dogs ranged in age from 4 months to 18 years. Dogs were randomized to treatment group and dosed once daily for 4 days with ENTYCE at 3 mg/kg or vehicle control. Dogs were assessed for appetite by owners on day 0 and day 3 ± 1 using an "increased", "no change" or "decreased" scoring system. Dogs were classified as a treatment success if the owner scored their dog's appetite as "increased" on day 3 ± 1 . The success rates of the two groups were significantly different (p = 0.0078); 68.6% (n = 83) of dogs administered ENTYCE were successes, compared to 44.6% (n = 25) of the dogs in the vehicle control group.

Animal Safety:

In a 12-month laboratory safety study, 32 healthy Beagle dogs (4 dogs per sex per group) approximately 11-12 months of age and weighing 9-13.6 kg were dosed orally with capromorelin in deionized water daily at 0X (placebo), 0.3 (0.13X), 7 (3.07X), and 40 (17.5X) mg/kg/day. Administration of capromorelin was associated with increased salivation and reddening/swollen paws, increased liver weights and hepatocellular cytoplasmic vacuolation. Treatment related decreases were seen in red blood cell count, hemoglobin and hematocrit in the 40 mg/kg group.

Pale skin, pale gums, and decreased red blood cell count, hemoglobin and hematocrit were observed in one dog administered 40 mg/kg/day. Increases were seen in cholesterol, high density lipoproteins, and the liver specific isozyme of

Increases were seen in cholesterol, high density lipoproteins, and the liver specific isozyme of serum alkaline phosphatase in the 40 mg/kg group. Growth hormone and insulin-like growth factor 1 plasma levels were increased in all groups administered capromorelin. There were no effects noted on gross necropsy. Capromorelin levels were similar in plasma collected on days 90, 181, and 349 indicating no accumulation of drug.

Storage Conditions:

Store at or below 86° F (30° C)

How Supplied:

30 mg/mL flavored solution in 10 mL, 15 mL and 30 mL bottles with measuring syringe

Approved by FDA under NADA # 141-457

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