Dirlotapide

Cat. No.: HY-U00070
CAS No.: 481658-94-0
Molecular Formula: C₄₀H₃₃F₃N₄O₃
Molecular Weight: 674.71
Target: Others
Pathway: Others
Storage:
- Powder -20°C 3 years
- Powder 4°C 2 years
- In solvent -80°C 6 months
- In solvent -20°C 1 month

BIOLOGICAL ACTIVITY

Description
Dirlotapide (CP742033) is a gut-selective inhibitor of microsomal triglyceride transfer protein (MTP) that reliably produces weight loss in obese dogs.

In Vivo
Dogs receiving 0.3 mg dirlotapide/kg once daily have a small but significant (P=0.018) decrease (6.16 ± 2.22%, mean ± SD) in crude fat digestibility compared with the placebo-treated food-restricted dogs, but no difference in crude protein, dry matter, or energy digestibility is observed. Dirlotapide effectively reduces appetite and energy intake without affecting nutrient digestibility, except for a minimal decrease in fat digestibility. Dirlotapide (0.5 mg/kg) results in a high rate of weight loss (3.3% weekly) and anorexia, emesis, and loose stools for some dogs. Dirlotapide produces weight loss by both reducing appetite (about 90% of the weight loss activity) and by increasing fecal fat excretion (about 10% of the weight loss activity).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [2]
Dirlotapide in the commercial formulation of a 5-mg/mL oil solution, is administered at an initial rate of 0.5 mg/kg adjusted individually based on the weight loss change in the previous 2 weeks. Dogs assigned to placebo receive the oil vehicle (identical in appearance to the dirlotapide solution) at a rate of 0.1 mL/kg and 0.075 mL/kg during the weight loss and weight management phases, respectively. The dose volume is administered directly into the dog’s mouth with a dosing syringe approximately 30 min before feeding.

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REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.

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