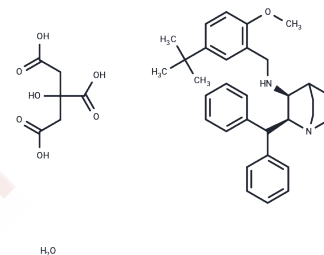


Maropitant citrate

Chemical Properties

CAS No. :	359875-09-5
Formula:	C38H50N2O9
Molecular Weight:	678.81
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Maropitant citrate is a synthetic neurokinin-1 receptor antagonist and substance P inhibitor, used for controlling vomiting in cats and dogs.
Targets(IC50)	Neurokinin receptor
In vitro	Maropitant citrate is a synthetic neurokinin-1 receptor antagonist. [1]
In vivo	Maropitant citrate 1 and 2 mg/kg were injected subcutaneously into Rhode Island red hens. Blood samples were collected within 36 hours after administration. The mean maximum plasma concentration, the time to reach the maximum concentration and the elimination half-life were 915.6 ng/ml and 1195.2 ng/ml, 0.49 h and 1.6 h, and 8.47 h and 8.58 h, respectively. [1] Treatment of ulcerative dermatitis (UD) mice with Maropitant citrate (1 mg/kg) significantly reduced the size of UD lesions in mice. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4732 mL	7.3658 mL	14.7317 mL
5 mM	0.2946 mL	1.4732 mL	2.9463 mL
10 mM	0.1473 mL	0.7366 mL	1.4732 mL
50 mM	0.0295 mL	0.1473 mL	0.2946 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mones AB, et al. Pharmacokinetics of maropitant citrate in Rhode Island Red chickens (*Gallus gallus domesticus*) following subcutaneous administration. *J Vet Pharmacol Ther.* 2022 Sep;45(5):495-500.

Williams-Fritze MJ, et al. Maropitant citrate for treatment of ulcerative dermatitis in mice with a C57BL/6 background. *J Am Assoc Lab Anim Sci.* 2011 Mar;50(2):221-6.

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