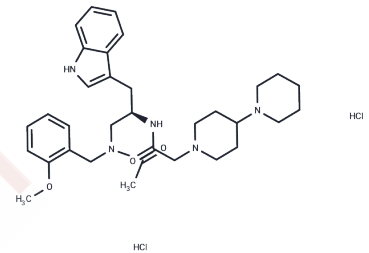


## Lanepitant 2HCl

## Chemical Properties

CAS No. :	170508-05-1
Formula:	C <sub>33</sub> H <sub>47</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	632.66
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Lanepitant 2HCl is a non-peptide neurokinin-1 receptor antagonist with analgesic and anti-inflammatory activity. Lanepitant 2HCl inhibits the binding of Substance P to the neurokinin-1 receptor, inhibits neurogenic inflammation and pain transmission, and can be used in the study of painful neuropathic disorders, such as migraines.
Targets(IC50)	Neurokinin receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5806 mL	7.9031 mL	15.8063 mL
5 mM	0.3161 mL	1.5806 mL	3.1613 mL
10 mM	0.1581 mL	0.7903 mL	1.5806 mL
50 mM	0.0316 mL	0.1581 mL	0.3161 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

- Goldstein DJ, et al. Lanepitant, an NK-1 antagonist, in migraine prevention. Cephalalgia. 2001 Mar;21(2):102-6.
- Goldstein DJ, et al. Study of the analgesic effect of lanepitant in patients with osteoarthritis pain. Clin Pharmacol Ther. 2000 Apr;67(4):419-26.
- Goldstein DJ, et al. Dose-response study of the analgesic effect of lanepitant in patients with painful diabetic neuropathy. Clin Neuropharmacol. 2001 Jan-Feb;24(1):16-22.
- Bignami F, et al. NK1 receptor antagonists as a new treatment for corneal neovascularization. Invest Ophthalmol Vis Sci. 2014 Sep 16;55(10):6783-94.

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