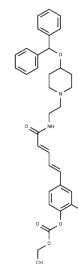


Linetastine

Chemical Properties

CAS No. :	159776-68-8
Formula:	C ₃₅ H ₄₀ N ₂ O ₆
Molecular Weight:	584.7
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	Linetastine (TMK-688) is a 5-lipoxygenase inhibitor (5-LOX) that inhibits leukotriene production and antagonizes the effects of histamine. Linetastine is used in studies of asthma, atherosclerosis, and peptic ulcers.
Targets(IC50)	LTR, Histamine Receptor, Lipoxygenase

Solubility Information

Solubility	DMSO: 50 mg/mL (85.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7103 mL	8.5514 mL	17.1028 mL
5 mM	0.3421 mL	1.7103 mL	3.4206 mL
10 mM	0.171 mL	0.8551 mL	1.7103 mL
50 mM	0.0342 mL	0.171 mL	0.3421 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

- Shizawa T, et al. 5-Lipoxygenase inhibitory and antihistamine activities of linetastine. *Arzneimittelforschung*. 1996; 46(11):1072-1076.
- Zhu YI, et al. Preview of potential therapeutic applications of leukotriene B₄ inhibitors in dermatology. *Skin Pharmacol Appl Skin Physiol*. 2000;13(5):235-245.

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