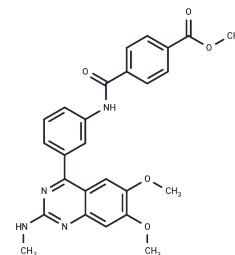


Lotamilast

Chemical Properties

CAS No. :	947620-48-6
Formula:	C ₂₆ H ₂₄ N ₄ O ₅
Molecular Weight:	472.49
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	Lotamilast (RVT-501) is a phosphodiesterase 4 (PDE-4) inhibitor (IC ₅₀ : 2.8 nM) potentially for the treatment of atopic dermatitis.
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: 50 mg/mL (105.82 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	2.1164 mL	10.5822 mL	21.1645 mL
5 mM	0.4233 mL	2.1164 mL	4.2329 mL
10 mM	0.2116 mL	1.0582 mL	2.1164 mL
50 mM	0.0423 mL	0.2116 mL	0.4233 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

- Nemoto O., et al. Effect of topical phosphodiesterase 4 inhibitor E6005 on Japanese children with atopic dermatitis: Results from a randomized, vehicle-controlled exploratory trial. *J Dermatol.* 2016 Aug;43(8):881-7.
- Mano Y., Validation of a UPLC-MS/MS method for the simultaneous determination of E62005, a phosphodiesterase 4 inhibitor, and its metabolite in human plasma. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Aug 15; 1998-1999:31-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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