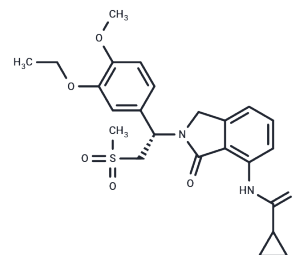


Dovramilast

Chemical Properties

CAS No. :	340019-69-4
Formula:	C ₂₄ H ₂₈ N ₂ O ₆ S
Molecular Weight:	472.55
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dovramilast (CC-11050) is an orally active phosphodiesterase 4 (PDE4) inhibitor that reduces the production of pro-inflammatory mediators and cytokines. Dovramilast is used in the study of Mycobacterium tuberculosis infections and lupus erythematosus.
Targets(IC50)	PDE
In vivo	In B6D2F1 mice, Dovramilast (5, 25, or 50 mg/kg; oral, single dose) reduces PDE4 expression in the lungs of mice infected with Mycobacterium tuberculosis (mtb)[1].

Solubility Information

Solubility	DMSO: 15 mg/mL (31.74 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	2.1162 mL	10.5809 mL	21.1618 mL
5 mM	0.4232 mL	2.1162 mL	4.2324 mL
10 mM	0.2116 mL	1.0581 mL	2.1162 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 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.

Reference

Selvakumar Subbian, et al. Pharmacologic Inhibition of Host Phosphodiesterase-4 Improves Isoniazid-Mediated Clearance of Mycobacterium tuberculosis. Front Immunol. 2016 Jun 17;7:238.

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