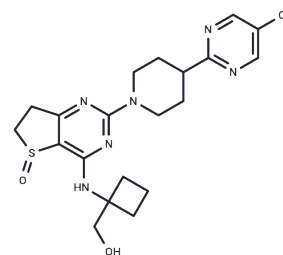


Nerandomilast

Chemical Properties

CAS No. :	1423719-30-5
Formula:	C ₂₀ H ₂₅ ClN ₆ O ₂ S
Molecular Weight:	448.97
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	Nerandomilast (BI 1015550) is an orally active PDE4B inhibitor with IC ₅₀ of 7.2 nM. BI 1015550 has potential applications in inflammation, allergic diseases, pulmonary fibrosis and chronic obstructive pulmonary disease (COPD) with a good safety profile.
Targets(IC ₅₀)	PDE
In vivo	METHODS: Rats were treated with Nerandomilast (BI 1015550) (0.01, 0.1, 1, 3 mg/kg, oral) to study its effect on LPS-stimulated TNF- α release in rat whole blood. RESULTS Nerandomilast (BI 1015550) at a dose of 3 mg/kg inhibited 93% of TNF- α release. The final experimental result showed that the dose of Nerandomilast (BI 1015550) that caused half-maximal inhibition (ED ₅₀) of LPS-induced TNF- α release was 0.04 mg/kg. [1]

Solubility Information

Solubility	DMSO: 4.49 mg/mL (10 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	2.2273 mL	11.1366 mL	22.2732 mL
5 mM	0.4455 mL	2.2273 mL	4.4546 mL
10 mM	0.2227 mL	1.1137 mL	2.2273 mL
50 mM	0.0445 mL	0.2227 mL	0.4455 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

Herrmann FE, et al. BI 1015550 is a PDE4B Inhibitor and a Clinical Drug Candidate for the Oral Treatment of Idiopathic Pulmonary Fibrosis. *Front Pharmacol.* 2022 Apr 20;13:838449.

Pouzet P A, et al. Piperidino-dihydrothienopyrimidine sulfoxides and their use for treating COPD and asthma. United States. US9150586.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481