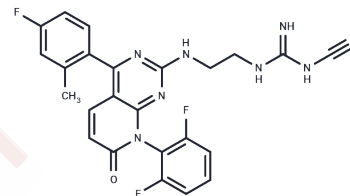


SB 706504

Chemical Properties

CAS No. : 911110-38-8
 Formula: C₂₄H₁₉F₃N₈O
 Molecular Weight: 492.46
 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	SB 706504 is an effective p38 MAPK inhibitor that suppresses inflammatory gene expression in macrophages and inhibits TNF α production in LPS-stimulated chronic obstructive pulmonary disease (COPD).
Targets(IC50)	p38 MAPK,TNF
In vitro	Methods: Alveolar macrophages (AMs) were treated with SB 706504 (3 μ M, 0.5 hours), and the TNF α protein levels in the cell culture supernatant were analyzed using enzyme-linked immunoadsorption assay (ELISA). Results: SB 706504 significantly reduced the protein levels of TNF α . [1]

Solubility Information

Solubility	DMSO: <49.25 mg/mL, 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	2.0306 mL	10.1531 mL	20.3062 mL
5 mM	0.4061 mL	2.0306 mL	4.0612 mL
10 mM	0.2031 mL	1.0153 mL	2.0306 mL
50 mM	0.0406 mL	0.2031 mL	0.4061 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

Lauren M. Kent, et al. Inhibition of lipopolysaccharide-stimulated chronic obstructive pulmonary disease macrophage inflammatory gene expression by dexamethasone and the p38 mitogen-activated protein kinase inhibitor N-cyano-N'-(2-[[8-(2,6-difluorophenyl)-4-(4-fluoro-2-methylphenyl)-7-oxo-7,8-dihydropyrido[2,3-d]pyrimidin-2-yl]amino]ethyl)guanidine (SB706504).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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