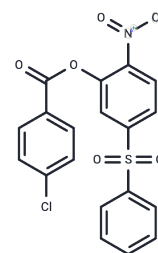


BTB06584

Chemical Properties

CAS No. : 219793-45-0
 Formula: C₁₉H₁₂ClNO₆S
 Molecular Weight: 417.82
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	BTB06584 is an IF1-dependent, selective inhibitor of the mitochondrial F1 Fo-ATPase. BTB06584 is a novel acetohydroxyacid synthase(AHAS) inhibitor, a promising drug target against Mycobacterium tuberculosis (MTB).
Targets(IC ₅₀)	RAAS,ATPase
In vitro	BTB06584 restores defective hemoglobin synthesis in zebrafish pinotage (pnt) mutants without evident toxicity.
In vivo	BTB06584 inhibits F1Fo-ATPase activity in an IF1-dependent manner, does not affect ATP synthesis, and also restricts ischemia-induced damage caused by the reverse action of mitochondrial F1Fo-ATP synthase.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 78 mg/mL (186.68 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3934 mL	11.9669 mL	23.9338 mL
5 mM	0.4787 mL	2.3934 mL	4.7868 mL
10 mM	0.2393 mL	1.1967 mL	2.3934 mL
50 mM	0.0479 mL	0.2393 mL	0.4787 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

Ivanov F, et al. Br J Pharmacol. 2014, doi: 10.1111/bph.12638.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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