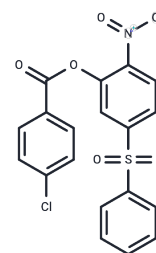


BTB06584

## Chemical Properties

CAS No. : 219793-45-0  
 Formula: C<sub>19</sub>H<sub>12</sub>ClNO<sub>6</sub>S  
 Molecular Weight: 417.82  
 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	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(IC50)	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 <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.79 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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

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

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