

## Tuberculosis inhibitor 3

## Chemical Properties

CAS No. : 2219325-28-5

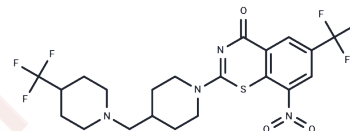
Formula: C<sub>21</sub>H<sub>22</sub>F<sub>6</sub>N<sub>4</sub>O<sub>3</sub>S

Molecular Weight: 524.48

Store at low temperature

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	Tuberculosis inhibitor 3 (compound 2i) is a highly potent and orally bioavailable anti-tuberculosis drug with in vitro antidrug activity of MIC < 0.016 µg/mL against both drug-sensitive and drug-resistant Mycobacterium tuberculosis, H37RV & MDR-TB.
Targets(IC50)	Antibacterial
In vitro	Tuberculosis inhibitor 3 (Compound 2i) were found to display potent anti-TB activity (MIC < 0.016 µg/mL) against drug-sensitive/resistant MTB strains[1].

## Solubility Information

Solubility	DMSO: 20 mg/mL (38.13 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	1.9067 mL	9.5333 mL	19.0665 mL
5 mM	0.3813 mL	1.9067 mL	3.8133 mL
10 mM	0.1907 mL	0.9533 mL	1.9067 mL
50 mM	0.0381 mL	0.1907 mL	0.3813 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

Kai Lv, et al. Design, synthesis and antitubercular evaluation of benzothiazinones containing a piperidine moiety. Eur J Med Chem. 2018 May 10;151:1-8.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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