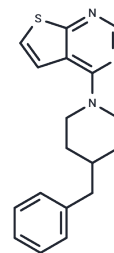


ML116

Chemical Properties

CAS No. : 744270-00-6
 Formula: C₁₈H₁₉N₃S
 Molecular Weight: 309.43
 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	ML116 is a potent and selective STAT3 inhibitor.
Targets(IC50)	STAT
In vitro	Probe ML116 exhibits a STAT3 IC50 value of approximately 4 micromolar and does not inhibit the STAT1, STAT5, or NFκB signaling pathways (IC50 values greater than 56 micromolar), as determined using cell-based luciferase reporter assays. Quantitative PCR experiments demonstrated that probe ML116 inhibits transcription of the STAT3-regulated gene BCL3

Solubility Information

Solubility	DMSO: 3.1 mg/mL (10.02 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	3.2317 mL	16.1587 mL	32.3175 mL
5 mM	0.6463 mL	3.2317 mL	6.4635 mL
10 mM	0.3232 mL	1.6159 mL	3.2317 mL
50 mM	0.0646 mL	0.3232 mL	0.6463 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

Madoux F , Koenig M , Sessions H , et al. Modulators of STAT Transcription Factors for the Targeted Therapy of Cancer (STAT3 Inhibitors)[J]. 2010.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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