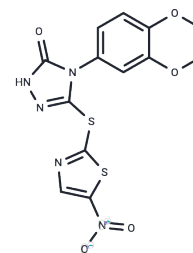


BI-78D3

Chemical Properties

CAS No. : 883065-90-5
 Formula: C₁₃H₉N₅O₅S₂
 Molecular Weight: 379.37
 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	BI-78D3, a competitive JNK inhibitor. IC ₅₀ of BI-78D3 is 280 nM that displays > 100 fold selectivity over p38 α , and have no activity at mTOR and PI-3K.
Targets(IC ₅₀)	JNK
In vitro	BI-78D3 Inhibits JNK interacting protein 1 (JIP1)-JNK binding and prevents JNK substrate phosphorylation[2].
In vivo	In animal studies, BI-78D3 not only blocks JNK dependent Con A-induced liver damage but also restores insulin sensitivity in mouse models of type 2 diabetes[1].
Cell Research	Cells are subjected to a dose range of doxorubicin concentrations in the presence or absence of a non-toxic dose (10 nM) of the small molecule JIP1-inhibitor BI-78D3. (Only for Reference)

Solubility Information

Solubility	Ethanol: 1.9 mg/mL (5.01 mM),Sonication is recommended. DMSO: 37.9 mg/mL (99.9 mM),Sonication is recommended. (< 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 (5.27 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

	1mg	5mg	10mg
1 mM	2.6359 mL	13.1797 mL	26.3595 mL
5 mM	0.5272 mL	2.6359 mL	5.2719 mL
10 mM	0.2636 mL	1.318 mL	2.6359 mL
50 mM	0.0527 mL	0.2636 mL	0.5272 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

Stebbins JL, et al. Proc Natl Acad Sci U S A. 2008, 105(43):16809-16813.

Posthumadeboer J, et al. Oncotarget. 2012, 3(10):1169-1181.

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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