

MI-2 (hydrochloride)

Chemical Properties

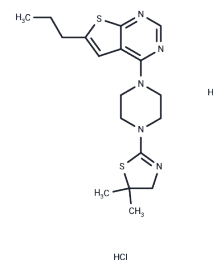
CAS No. :

Formula: C₁₈H₂₅N₅S₂·2HCl

Molecular Weight: 448.5

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	MI-2 (Menin-MLL Inhibitor) is an effective menin-MLL interaction inhibitor (IC ₅₀ : 446 ± 28 nM).
Targets(IC ₅₀)	Others
In vitro	In HEK293 cells, MI-2 accessed the protein target menin-MLL and effectively inhibited the menin-MLL-AF9 interaction. MI-2 effectively blocked cell proliferation, and induced cell apoptosis in human MLL leukemia cell lines harboring different MLL translocations MLL-AF9 and MLL-ENL, with the GI ₅₀ value of about 5 μM for MI-2. MI-2 showed little effect on the cell growth of E2A-HLF transduced BMC with the GI ₅₀ of > 50 μM. MI-2 specifically reduced the immortalization potential of cells transformed with MLL fusion oncoproteins by downregulating the expression of target genes required for MLL fusion protein oncogenic activity [1].
In vivo	After 7 days of treatment with MI-2, MLL-AF9 transformed BMC showed great morphology changes and the expression of CD11b was greatly increased [1].

Solubility Information

Solubility	DMSO: 10 mg/mL (22.3 mM),Sonication is recommended. Ethanol: ≤30 mg/mL,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	2.2297 mL	11.1483 mL	22.2965 mL
5 mM	0.4459 mL	2.2297 mL	4.4593 mL
10 mM	0.223 mL	1.1148 mL	2.2297 mL
50 mM	0.0446 mL	0.223 mL	0.4459 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.

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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