

Mepazine

Chemical Properties

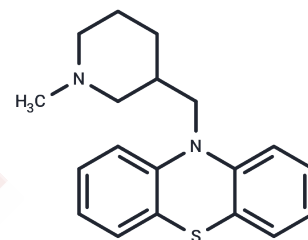
CAS No. : 60-89-9

Formula: C₁₉H₂₂N₂S

Molecular Weight: 310.46

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mepazine (Pecazine) is a potent and selective inhibitor of MALT1, inhibiting GSTMALT1 full length and GSTMALT1 325-760 with IC ₅₀ s of 0.83 μM and 0.42 μM, respectively. Mepazine enhances apoptosis and impacts cell viability.
Targets(IC ₅₀)	Apoptosis, MALT
In vitro	Mepazine (5, 10, and 20 μM) decreases cell viability in the ABC-DLBCL cells HBL1, OCI-Ly3, U2932, and TMD8, without significantly affecting GCB-DLBCL cells[1].
In vivo	In female NSG mice with a murine DLBCL xenogeneic tumor model, Mepazine (16 mg/kg; i.p.) interferes with the growth and induces apoptosis of ABC-DLBCL cell line OCI-Ly10. Mepazine strongly impairs the expansion of OCI-Ly10 with daily administration[1].

Solubility Information

Solubility	DMSO: 25 mg/mL (80.53 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	3.221 mL	16.1051 mL	32.2103 mL
5 mM	0.6442 mL	3.221 mL	6.4421 mL
10 mM	0.3221 mL	1.6105 mL	3.221 mL
50 mM	0.0644 mL	0.3221 mL	0.6442 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

Nagel D, et al. Pharmacologic inhibition of MALT1 protease by phenothiazines as a therapeutic approach for the treatment of aggressive ABC-DLBCL. *Cancer Cell*. 2012 Dec 11;22(6):825-37.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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