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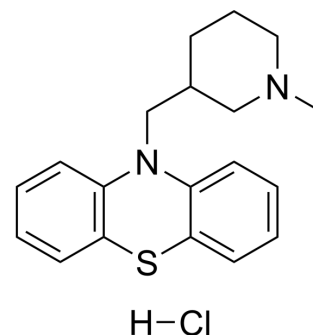
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Mepazine hydrochloride

Cat. No.:	HY-121282A
CAS No.:	2975-36-2
Molecular Formula:	C ₁₉ H ₂₃ ClN ₂ S
Molecular Weight:	346.92
Target:	MALT1; Apoptosis
Pathway:	Metabolic Enzyme/Protease; NF-κB; Apoptosis
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (144.13 mM; Need ultrasonic)					
	H ₂ O : 2.22 mg/mL (6.40 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.8825 mL	14.4125 mL	28.8251 mL
		5 mM		0.5765 mL	2.8825 mL	5.7650 mL
10 mM			0.2883 mL	1.4413 mL	2.8825 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.21 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.21 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.21 mM); Clear solution					
	4. Add each solvent one by one: PBS Solubility: 1.25 mg/mL (3.60 mM); Clear solution; Need ultrasonic and warming and heat to 60°C					

BIOLOGICAL ACTIVITY

Description	Mepazine hydrochloride (Pecazine hydrochloride) is a potent and selective MALT1 protease inhibitor with IC ₅₀ s of 0.83 and 0.42 μM for GSTMALT1 full length and GSTMALT1 325-760, respectively. Mepazine hydrochloride affects viability of ABC-DLBCL cells by enhancing apoptosis ^[1] .
IC ₅₀ & Target	MALT1 ^[1]

In Vitro

Mepazine (5-20 μ M; 4 days) causes a decrease of cell viability in the activated B cell subtype of diffuse large B cell lymphoma (ABCDLBCL) cells, without significantly affecting GCB-DLBCL cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	ABC-DLBCL cell lines (HBL1, OCI-Ly3, U2932, TMD8, OCI-Ly10) and GCB-DLBCL cell lines (BJAB, Su-DHL-6, Su-DHL-4)
Concentration:	5, 10, and 20 μ M
Incubation Time:	4 days
Result:	Caused a decrease of cell viability in the ABC-DLBCL cells HBL1, OCI-Ly3, U2932, and TMD8, without significantly affecting GCB-DLBCL cells.

In Vivo

Mepazine (16 mg/kg; intraperitoneal administration) interferes with growth and induces apoptosis of ABC-DLBCL cell line OCI-Ly10 in NOD/scid IL-2Rg^{null} (NSG) mice with a murine DLBCL xenogeneic tumor model. Daily administration of Mepazine strongly impairs the expansion of the ABC-DLBCL cell line OCI-Ly10^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6- to 8-week-old female NOD.Cg-Prkdc ^{scid} Il2rg ^{tm1Wjl} /SzJ (NSG) mice with a murine DLBCL xenogeneic tumor model ^[1]
Dosage:	400 μ g per animal (25 g), corresponding to approximately 16 mg/kg
Administration:	Intraperitoneal administration; started 1 or 12 days after transplantation and given continuously every 24 hr; daily application
Result:	Daily administration strongly impaired the expansion of the ABC-DLBCL cell line OCI-Ly10.

CUSTOMER VALIDATION

- Blood. 2022 Jul 27;blood.2022016424.
- Int J Mol Sci. 2023 Apr 17;24(8):7402.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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