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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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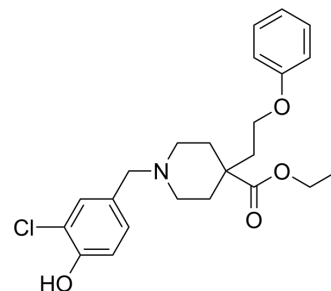
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ML359

Cat. No.:	HY-114086
CAS No.:	1069858-99-6
Molecular Formula:	C ₂₃ H ₂₈ ClNO ₄
Molecular Weight:	417.93
Target:	PDI
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (239.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.3927 mL	11.9637 mL	23.9275 mL
		5 mM	0.4785 mL	2.3927 mL	4.7855 mL
		10 mM	0.2393 mL	1.1964 mL	2.3927 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 (5.98 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.98 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.5 mg/mL (5.98 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ML359 is a potent, selective and reversible inhibitor of protein disulfide isomerase (PDI), with an IC ₅₀ of 250 nM. ML359 can prevent thrombus formation in vivo ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 250 nM (protein disulfide isomerase) ^[1]
In Vitro	ML359 shows no cytotoxicity in three human cell lines (HeLa, HEK293, and HepG2), and some activity in inhibiting platelet aggregation in vitro (25% inhibition at 30 μM) ^[1] .

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	ML359 inhibits of thrombus formation in a mouse laser injury model^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Khodier C, et, al. Identification of ML359 as a Small Molecule Inhibitor of Protein Disulfide Isomerase. Probe Reports from the NIH Molecular Libraries Program. 2010-2013 Apr 12.
- [2]. Bendapudi PK, et, al. ML359, a Small Molecule Inhibitor of Protein Disulfide Isomerase That Prevents Thrombus Formation and Inhibits Oxidoreductase but Not Transnitrosylase Activity. Blood (2014) 124 (21): 2880.
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Caution: Product has not been fully validated for medical applications. For research use only.

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