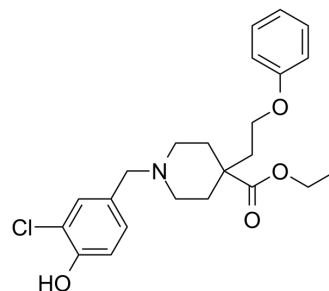


ML359

Cat. No.:	HY-114086		
CAS No.:	1069858-99-6		
Molecular Formula:	C ₂₃ H ₂₈ ClNO ₄		
Molecular Weight:	417.93		
Target:	Others		
Pathway:	Others		
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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<ol style="list-style-type: none"> 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 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 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]} .
IC₅₀ & Target	IC ₅₀ : 250 nM (protein disulfide isomerase) ^[1]
In Vitro	ML359 (PDI) IC ₅₀ 250 nM ML359 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA