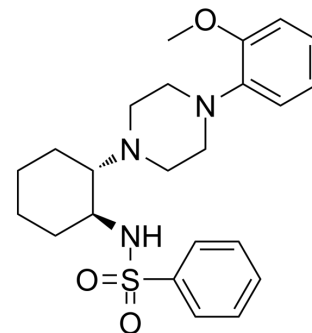


(1S,2S)-ML-SI3

Cat. No.:	HY-134819
CAS No.:	2563870-87-9
Molecular Formula:	C ₂₃ H ₃₁ N ₃ O ₃ S
Molecular Weight:	429.58
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (232.79 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.3279 mL	11.6393 mL	23.2786 mL
		5 mM	0.4656 mL	2.3279 mL	4.6557 mL
	10 mM	0.2328 mL	1.1639 mL	2.3279 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 (5.82 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.82 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.82 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(1S,2S)-ML-SI3 is the trans-isomer of ML-SI3, a TRPML inhibitor. The (-)-isomer is a potent inhibitor of TRPML1 and TRPML2 (IC ₅₀ =1.6 μM/2.3 μM) and a weak inhibitor of TRPML3 (IC ₅₀ =12.5 μM), whereas the (+)-enantiomer is an inhibitor on TRPML1 (IC ₅₀ =5.9 μM), but an activator on TRPML 2 and 3 (EC ₅₀ =2.7 μM/10.8 μM) ^[1] .		
IC ₅₀ & Target	TRPML1 5.9 μM (IC ₅₀)	TRPML2 2.7 μM (EC ₅₀)	TRPML3 10.8 μM (EC ₅₀)

REFERENCES

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