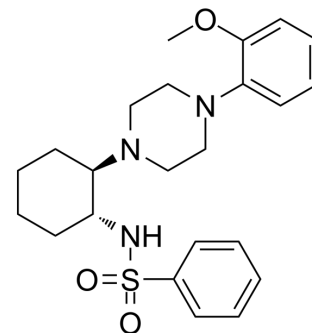


(1R,2R)-ML-SI3

Cat. No.:	HY-134819A
CAS No.:	2418594-00-8
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)						
	Preparing Stock Solutions	Solvent Concentration	Mass	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 >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.82 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	(1R,2R)-ML-SI3 is a potent inhibitor of both TRPML1 and TRPML2 (IC ₅₀ values of 1.6 and 2.3 μM) and a weak inhibitor (IC ₅₀ 12.5 μM) of TRPML3 ^[1] .		
IC ₅₀ & Target	TRPML1 1.6 μM (IC ₅₀)	TRPML2 2.3 μM (IC ₅₀)	TRPML3 12.5 μM (IC ₅₀)

REFERENCES

[1]. Leser C, Keller M, Gerndt S, et al. Chemical and pharmacological characterization of the TRPML calcium channel blockers ML-SI1 and ML-SI3. Eur J Med Chem. 2021;210:112966.

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