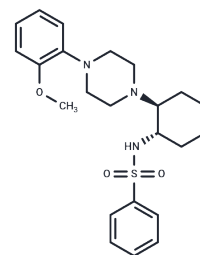


(1S,2S)-ML-SI3

Chemical Properties

CAS No. : 2563870-87-9
 Formula: C₂₃H₃₁N₃O₃S
 Molecular Weight: 429.58
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	(1S,2S)-ML-SI3, the trans-isomer of ML-SI3, acts as a TRPML inhibitor. This (-)-isomer effectively inhibits TRPML1 and TRPML2 with IC ₅₀ values of 1.6 μM and 2.3 μM, respectively, and exhibits weaker inhibition of TRPML3 with an IC ₅₀ of 12.5 μM. In contrast, the (+)-enantiomer inhibits TRPML1 (IC ₅₀ = 5.9 μM) and serves as an activator for TRPML2 and TRPML3 with EC ₅₀ values of 2.7 μM and 10.8 μM respectively [1].
Targets(IC ₅₀)	TRP/TRPV Channel

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0466 mL	0.2328 mL	0.4656 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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