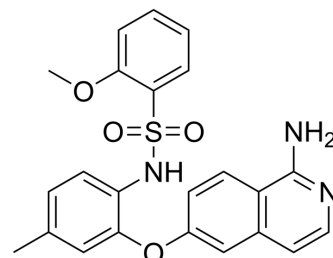


MRGPRX1 agonist 1

Cat. No.:	HY-130118		
CAS No.:	2377379-39-8		
Molecular Formula:	C ₂₃ H ₂₁ N ₃ O ₄ S		
Molecular Weight:	435.5		
Target:	Mas-related G-protein-coupled Receptor (MRGPR)		
Pathway:	GPCR/G Protein		
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 : 125 mg/mL (287.03 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.2962 mL	11.4811 mL	22.9621 mL
		5 mM		0.4592 mL	2.2962 mL	4.5924 mL
10 mM			0.2296 mL	1.1481 mL	2.2962 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: ≥ 2.08 mg/mL (4.78 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.78 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.78 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	MRGPRX1 agonist 1 is a highly potent agonist of MRGPRX1 (Mas-related G-protein-coupled receptor X1), with an EC ₅₀ of 50 nM, and is inactive on MRGPRC11. Analgesic effect ^[1] .
IC₅₀ & Target	EC ₅₀ : 50 nM (MRGPRX1) ^[1]

REFERENCES

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

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