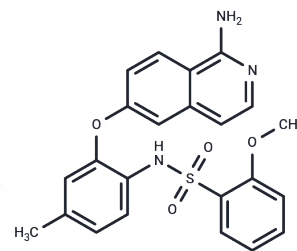


MRGPRX1 agonist 1

Chemical Properties

CAS No. :	2377379-39-8
Formula:	C ₂₃ H ₂₁ N ₃ O ₄ S
Molecular Weight:	435.5
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	MRGPRX1 agonist 1 is a highly potent agonist of MRGPRX1 (Mas-related G-protein-coupled receptor X1) with an EC ₅₀ of 50 nM.
Targets(IC ₅₀)	MRGPR

Solubility Information

Solubility	DMSO: 125 mg/mL (287.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.18 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0459 mL	0.2296 mL	0.4592 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.

Reference

Prchalová E, et al. Discovery of Benzamidine- and 1-Aminoisoquinoline-Based Human MAS-Related G-Protein-Coupled Receptor X1 (MRGPRX1) Agonists. J Med Chem. 2019 Sep 26;62(18):8631-8641.

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