MrgprX2 antagonist-2

Cat. No.: HY-145192

CAS No.: 2642346-30-1

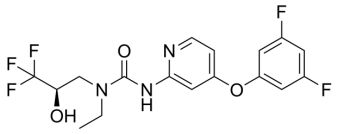
Molecular Formula: $C_{17}H_{16}F_5N_3O_3$

Molecular Weight: 405.32

Target: Mas-related G-protein-coupled Receptor (MRGPR)

Pathway: GPCR/G Protein

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 (246.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4672 mL	12.3359 mL	24.6719 mL
	5 mM	0.4934 mL	2.4672 mL	4.9344 mL
	10 mM	0.2467 mL	1.2336 mL	2.4672 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 (6.17 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MrgprX2 antagonist-2 is an MrgprX2 antagonist extracted from patent WO2021092262A1, example E163. MrgprX2 antagonist-2 can be used for the research of inflammatory disorders of the skin[1].

IC_{50} & Target

MrgprX2[1]

In Vitro

MRGPRX2, a member of the Mas-related gene family, was found to be expressed in sensory neurons, mast cells and, most recently, in keratinocytes. MRGPRX2 mRNA is present in adipose tissue, esophagus, urinary bladder, lungs with the highest levels found in skin. Activation of MRGPRX2 leads to mast cell degranulation with subsequent pseudo-allergic reactions[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. CEVIKBAS F, et, al. Mrgprx2 antagonists and uses thereof. WO2021092262A1.

[2]. Porebski G, et, al. Mas-Related G Protein-Coupled Receptor-X2 (MRGPRX2) in Drug Hypersensitivity Reactions. Front Immunol. 2018 Dec 20;9:3027.

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