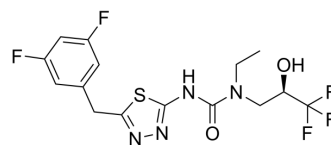


## MrgprX2 antagonist-1

Cat. No.:	HY-145191
CAS No.:	2642162-06-7
Molecular Formula:	C <sub>15</sub> H <sub>15</sub> F <sub>5</sub> N <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	410
Target:	Mas-related G-protein-coupled Receptor (MRGPR)
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 66.67 mg/mL (162.61 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		2.4390 mL	12.1951 mL	24.3902 mL
		5 mM		0.4878 mL	2.4390 mL	4.8780 mL
	10 mM		0.2439 mL	1.2195 mL	2.4390 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 (6.10 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	MrgprX2 antagonist-1 is an MrgprX2 antagonist extracted from patent WO2021092264A1, example E23. MrgprX2 antagonist-1 can be used for the research of inflammatory disorders of the skin <sup>[1]</sup> .
IC <sub>50</sub> & Target	MrgprX2 <sup>[1]</sup>
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 <sup>[2]</sup> .

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

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## REFERENCES

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- [1]. CEVIKBAS F, et, al. MrgprX2 ANTAGONISTS AND USES THEREOF. WO2021092264A1.
- [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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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