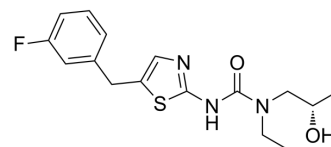


## MrgprX2 antagonist-3

Cat. No.:	HY-145193
CAS No.:	2642174-19-2
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	337.41
Target:	Mas-related G-protein-coupled Receptor (MRGPR)
Pathway:	GPCR/G Protein
Storage:	<div>Powder -20°C 3 years</div> <div>In solvent -80°C 6 months</div> <div>-20°C 1 month</div>



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (296.38 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.9638 mL	14.8188 mL	29.6375 mL
		5 mM		0.5928 mL	2.9638 mL	5.9275 mL
		10 mM		0.2964 mL	1.4819 mL	2.9638 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 (7.41 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	MrgprX2 antagonist-3 is an MrgprX2 antagonist extracted from patent WO2021092240A1, example E117. MrgprX2 antagonist-3 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 for the treatment of inflammatory disorders. WO2021092240A1.
- [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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