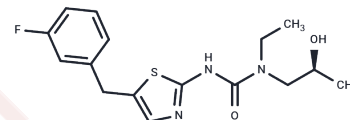


## MrgprX2 antagonist-3

## Chemical Properties

CAS No. : 2642174-19-2  
 Formula: C<sub>16</sub>H<sub>20</sub>FN<sub>3</sub>O<sub>2</sub>S  
 Molecular Weight: 337.41  
 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	MrgprX2 antagonist-3 (compound E117) is a MrgprX2 antagonist applicable for investigating cutaneous inflammation.
Targets(IC50)	MRGPR
In vitro	MRGPRX2, a member of the Mas-related gene family, is expressed in sensory neurons, mast cells, and keratinocytes, with mRNA present in adipose tissue, esophagus, urinary bladder, lungs, and highest levels in skin. Activation of MRGPRX2 triggers mast cell degranulation, causing subsequent pseudo-allergic reactions[2].

## Solubility Information

Solubility	DMSO: 80 mg/mL (237.1 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: 3.3 mg/mL (9.78 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

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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
50 mM	0.0593 mL	0.2964 mL	0.5928 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

CEVIKBAS F, et, al. Mrgprx2 antagonists for the treatment of inflammatory disorders. WO2021092240A1.

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481