

## CXCR2-IN-2

## Chemical Properties

CAS No. : 1838123-21-9

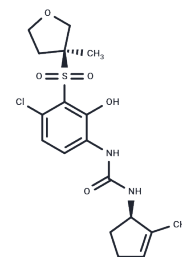
Formula: C<sub>18</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>5</sub>S

Molecular Weight: 414.9

Store at low temperature

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	CXCR2-IN-2 (compound 68) is a highly selective CXCR2 antagonist (IC <sub>50</sub> =5.2 nM) with the advantages of blood-brain barrier penetration and oral bioavailability. It inhibits Gro- $\alpha$ -induced CD11b expression in human whole blood (IC <sub>50</sub> =0.04 $\mu$ M).
Targets(IC <sub>50</sub> )	CXCR
In vivo	CXCR2-IN-2 (1-10 mg/kg; oral; twice daily for 3 consecutive days) dose-dependently reduced neutrophil infiltration in rat and mouse air sac models [1].

## Solubility Information

Solubility	DMSO: 200 mg/mL (482.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (12.05 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4102 mL	12.0511 mL	24.1022 mL
5 mM	0.482 mL	2.4102 mL	4.8204 mL
10 mM	0.241 mL	1.2051 mL	2.4102 mL
50 mM	0.0482 mL	0.241 mL	0.482 mL

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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

Lu H, et al. Discovery of Novel 1-Cyclopentenyl-3-phenylureas as Selective, Brain Penetrant, and Orally Bioavailable CXCR2 Antagonists. J Med Chem. 2018;61(6):2518-2532.

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