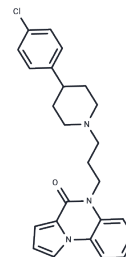


JMS-17-2

Chemical Properties

CAS No. : 1380392-05-1
 Formula: C₂₅H₂₆ClN₃O
 Molecular Weight: 419.95
 Storage: Store at low temperature
 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	JMS-17-2 is a potent and selective antagonist of CX3CR1 (IC ₅₀ : 0.32 nM).
Targets(IC ₅₀)	CXCR
Animal Research	SKBR3 human breast cancer cells were serum starved for four hours before being exposed to 50nM recombinant human FKN for 5 minutes, with or without previous incubation with either a CX3CR1 neutralizing antibody used at 15µg/ml or the JMS-17-2 antagonist (10nM) for 30 minutes at 37 °C.

Solubility Information

Solubility	DMSO: 11 mg/mL (26.19 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: 2 mg/mL (4.76 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

	1mg	5mg	10mg
1 mM	2.3812 mL	11.9062 mL	23.8124 mL
5 mM	0.4762 mL	2.3812 mL	4.7625 mL
10 mM	0.2381 mL	1.1906 mL	2.3812 mL
50 mM	0.0476 mL	0.2381 mL	0.4762 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

Shen F , Zhang Y , Jernigan D L , et al. Novel Small-molecule CX3CR1 Antagonist Impairs Metastatic Seeding and Colonization of Breast Cancer Cells[J]. Molecular Cancer Research, 2016:1541-7786.MCR-16-0013.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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