## JMS-17-2

®

MedChemExpress

Cat. No.:	HY-123918	
CAS No.:	1380392-05-1	
Molecular Formula:	C <sub>25</sub> H <sub>26</sub> CIN <sub>3</sub> O	
Molecular Weight:	419.95	
Target:	CX3CR1	
Pathway:	Immunology/Inflammation	
Storage:	4°C, protect from light	
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (59.53 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg 10 mg			
	Preparing Stock Solutions	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		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent Solubility: ≥ 2.08 r 2. Add each solvent o	one by one: 10% DMSO >> 40% PEong/mL (4.95 mM); Clear solution one by one: 10% DMSO >> 90% cor	G300 >> 5% Tween-8 m oil	0 >> 45% saline			
	Solubility: ≥ 2.08 mg/mL (4.95 mM); Clear solution						

DIOLOGICAL ACTIV			
Description	JMS-17-2 is a potent and selective CX3CR1 antagonist with an IC <sub>50</sub> of 0.32 nM. JMS-17-2 impairs metastatic seeding and colonization of breast cancer cells <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 0.32 nM (CX3CR1) <sup>[1]</sup>		
In Vivo	JMS-17-2 (10 mg/kg; aministered i.p.; twice a day for three weeks) causes a dramatic reduction of tumors in both skeleton and visceral organs in SCID mice <sup>[1]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Animal Model:       SCID mice (~25g) with MDA-231 xenograft <sup>[1]</sup>		

# Product Data Sheet

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Dosage:	10 mg/kg
Administration:	Aministered i.p.; twice a day for three weeks
Result:	Caused a dramatic reduction of tumors in both skeleton and visceral organs.

### CUSTOMER VALIDATION

- Nat Commun. 2024 Jan 10;15(1):449.
- Cancer Res. 2022 Sep 14;CAN-22-1199.
- Cancer Lett. 2024 Jan 25:216674.
- J Neuroinflammation. 2023 Mar 21;20(1):81.
- Stem Cells Int. 2023 Feb 20.

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. Shen F, et al. Novel Small-Molecule CX3CR1 Antagonist Impairs Metastatic Seeding and Colonization of Breast Cancer Cells. Mol Cancer Res. 2016 Jun;14(6):518-27.

Caution: Product has not been fully validated for medical applications. For research use only.

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