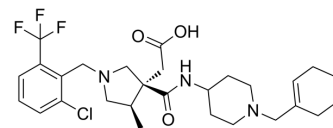


## E6130

<b>Cat. No.:</b>	HY-107456		
<b>CAS No.:</b>	1427058-33-0		
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>37</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	556.06		
<b>Target:</b>	CX3CR1		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 250 mg/mL (449.59 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7984 mL	8.9918 mL	17.9837 mL
	5 mM	0.3597 mL	1.7984 mL	3.5967 mL
	10 mM	0.1798 mL	0.8992 mL	1.7984 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.08 mg/mL (3.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.08 mg/mL (3.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.08 mg/mL (3.74 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

E6130 is an orally active and highly selective CX3CR1 modulator, that may be effective for treatment of inflammatory bowel disease.

#### IC<sub>50</sub> & Target

CX3CR1<sup>[1]</sup>

#### In Vitro

E6130 is an orally active and highly selective CX3CR1 modulator, inhibits the fractalkine-induced chemotaxis of human

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peripheral blood natural killer cells (IC<sub>50</sub>, 4.9 nM), and down-regulates CX3CR1 on the cell surface of CD56<sup>+</sup> NK cells with an EC<sub>50</sub> value of 5.2 nM. E6130 also shows agonistic activity via CX3CR1 with respect to GTPγS binding (EC<sub>50</sub> = 133 nM) and β-arrestin recruitment (EC<sub>50</sub> = 2.4 μM) in CX3CR1-expressing CHO-K1 membrane but show no antagonistic activity<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

E6130 (10 or 30 mg/kg, p.o.) reduces several inflammatory bowel disease-related parameters in a murine CD4<sup>+</sup> CD45RB<sup>high</sup> T-cell-transfer colitis model and a murine oxazolone-induced colitis model<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Cancers (Basel). 2022, 14(1), 64.

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## REFERENCES

[1]. Wakita H, et al. E6130, a Novel CX3C Chemokine Receptor 1 (CX3CR1) Modulator, Attenuates Mucosal Inflammation and Reduces CX3CR1+ Leukocyte Trafficking in Mice with Colitis. Mol Pharmacol. 2017 Nov;92(5):502-509.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA