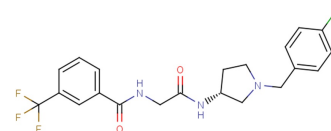


## CCR2 antagonist 4

## Chemical Properties

CAS No.:	226226-39-7
Formula:	C <sub>21</sub> H <sub>21</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	439.86
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	CCR2 antagonist 4 is a potent and specific antagonist of CCR2(IC <sub>50</sub> s of 180 nM), and potently inhibits MCP-1-induced chemotaxis(IC <sub>50</sub> of 24 nM).
Targets(IC <sub>50</sub> )	CCR2b: 180 nM
In vivo	Vp-TSL targets specifically aortic plaque endothelial VCAM-1 and CCR2 antagonist 4 reduces the mouse monocyte/macrophage cell line (RAW 264.7) adhesion/ infiltration into the aorta in ApoE-deficient mice[3].

## Solubility Information

Solubility	DMSO: 50 mg/mL (113.67 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.273 mL	11.367 mL	22.735 mL
5 mM	0.455 mL	2.273 mL	4.547 mL
10 mM	0.227 mL	1.137 mL	2.273 mL
50 mM	0.045 mL	0.227 mL	0.455 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Moree WJ, et al. Potent antagonists of the CCR2b receptor. Part 3: SAR of the (R)-3-aminopyrrolidine series. *Bioorg Med Chem Lett*. 2008 Mar 15;18(6):1869-73.
2. Hall SE, et al. Elucidation of binding sites of dual antagonists in the human chemokine receptors CCR2 and CCR5. *Mol Pharmacol*. 2009 Jun;75(6):1325-36.
3. Calin M, et al. VCAM-1 directed target-sensitive liposomes carrying CCR2 antagonists bind to activated endothelium and reduce adhesion and transmigration of monocytes. *Eur J Pharm Biopharm*. 2015 Jan;89:18-29.

Inhibitors · Natural Compounds · Compound Libraries

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