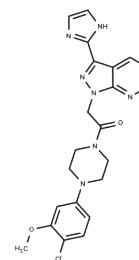


CCX354

Chemical Properties

CAS No. : 1010073-75-2
Formula: C₂₂H₂₂ClN₇O₂
Molecular Weight: 451.91
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	CCX354 (CCR1 antagonist 1) is a potent small molecule CCR1 antagonist with anti-inflammatory activity for the treatment of rheumatoid arthritis.
Targets(IC50)	CCR
In vitro	CCX354 displays potent activities in the chemotaxis assay (IC ₅₀ <100 nM).[1]
In vivo	CCX354 has in vivo anti-inflammatory activity. It also has superior pharmacokinetic properties.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (132.77 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 (4.43 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	2.2128 mL	11.0641 mL	22.1283 mL
5 mM	0.4426 mL	2.2128 mL	4.4257 mL
10 mM	0.2213 mL	1.1064 mL	2.2128 mL
50 mM	0.0443 mL	0.2213 mL	0.4426 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

Daniel Dairaghi, et al. Compounds for the treatment of osteoporosis and cancers. US20100113472 A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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