

INCB 3284

Chemical Properties

CAS No. : 887401-92-5

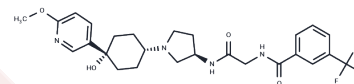
Formula: C₂₆H₃₁F₃N₄O₄

Molecular Weight: 520.54

Pure form: -20°C for 3 years | In solvent: -80°C for 1

Storage: year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	INCB 3284 is an orally available, selective and high affinity chemokine receptor 2 (CCR2) antagonist that inhibits monocyte chemotactic protein 1 from interacting with hCCR2. INCB 3284 is used in the study of hemorrhagic shock.
Targets(IC50)	CCR
In vitro	INCB3284 exhibited an IC ₅₀ of 3.7 nM for antagonizing the binding of monocyte chemoattractant protein-1 to hCCR2, an IC ₅₀ of 4.7 nM for antagonizing chemotactic activity, and an IC ₅₀ of 84 μM for inhibiting hERG potassium currents[1].
In vivo	INCB 3284 (1 mg/kg/day, intraperitoneal injection) or C021 significantly improved the neurological outcomes in AOM-treated mice, reduced microglial activation, decreased phosphorylation of ERK1/2, and attenuated the upregulation of cytokines induced by AOM[2].

Solubility Information

Solubility	H ₂ O: < 0.1 mg/mL (insoluble) DMSO: 60 mg/mL (115.26 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 (3.84 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	1.9211 mL	9.6054 mL	19.2108 mL
5 mM	0.3842 mL	1.9211 mL	3.8422 mL
10 mM	0.1921 mL	0.9605 mL	1.9211 mL
50 mM	0.0384 mL	0.1921 mL	0.3842 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

Xue CB, et al. Discovery of INCB3284, a Potent, Selective, and Orally Bioavailable hCCR2 Antagonist. ACS Med Chem Lett. 2011 Mar 31;2(6):450-4.

McMillin M, et al. Neuronal CCL2 is upregulated during hepatic encephalopathy and contributes to microglia activation and neurological decline. J Neuroinflammation. 2014 Jul 10;11:121.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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