

MLN-3897

Chemical Properties

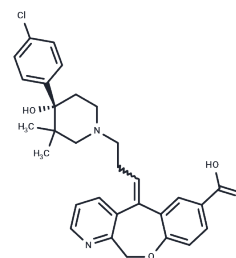
CAS No. : 1010731-97-1

Formula: C₃₀H₃₁ClN₂O₄

Molecular Weight: 519.03

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	MLN-3897 (CCR1 antagonist 10) is an orally active antagonist of CCR1 with a K_i of 2.3 nM for 125I-MIP-1 α binding to THP-1 cell membranes. MLN-3897 inhibits Akt signaling and MM cell survival and proliferation.
Targets(IC ₅₀)	CCR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9267 mL	9.6334 mL	19.2667 mL
5 mM	0.3853 mL	1.9267 mL	3.8533 mL
10 mM	0.1927 mL	0.9633 mL	1.9267 mL
50 mM	0.0385 mL	0.1927 mL	0.3853 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

Pusalkar S, et al. Metabolism, Excretion and Pharmacokinetics of MLN3897, a CCR1 Antagonist, in Humans. *Drug Metab Lett.* 2016;10(1):22-37.

Vergunst CE, et al. MLN3897 plus methotrexate in patients with rheumatoid arthritis: safety, efficacy, pharmacokinetics, and pharmacodynamics of an oral CCR1 antagonist in a phase IIa, double-blind, placebo-controlled, randomized, proof-of-concept study. *Arthritis Rheum.* 2009 Dec;60(12):3572-81.

Lu C, et al. Quantitative prediction and clinical observation of a CYP3A inhibitor-based drug-drug interactions with MLN3897, a potent C-C chemokine receptor-1 antagonist. *J Pharmacol Exp Ther.* 2010 Feb;332(2):562-8.

Vallet S, et al. MLN3897, a novel CCR1 inhibitor, impairs osteoclastogenesis and inhibits the interaction of multiple myeloma cells and osteoclasts. *Blood.* 2007 Nov 15;110(10):3744-52.

Kenneth G. Carson, et al. Ccr1 antagonists for the treatment of i.a. demyelinating inflammatory disease. WO2004043965A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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