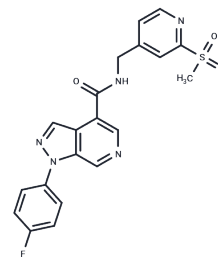


CCR1 antagonist 9

Chemical Properties

CAS No. :	1220026-26-5
Formula:	C ₂₀ H ₁₆ FN ₅ O ₃ S
Molecular Weight:	425.44
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	CCR1 antagonist 9 (compound 19e) is a selective CCR1 antagonist based on aziridine. It exhibits an IC ₅₀ of 6.8 nM for CCR1 inhibition in calcium flux assays and an IC ₅₀ of 30 μM for hERG.
Targets(IC ₅₀)	CCR
In vitro	CCR1 antagonist 9 blocks the CCR1 chemotaxis of THP-1 cells (IC ₅₀ : 28 nM) and also blocks hERG (IC ₅₀ : 30 μM) [1].

Solubility Information

Solubility	Methanol: 10 mg/mL (23.51 mM), Sonication is recommended. DMSO: 64 mg/mL (150.43 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: 2.5 mg/mL (5.88 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	2.3505 mL	11.7525 mL	23.5051 mL
5 mM	0.4701 mL	2.3505 mL	4.701 mL
10 mM	0.2351 mL	1.1753 mL	2.3505 mL
50 mM	0.047 mL	0.2351 mL	0.4701 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

Harcken C, et al. Identification of novel azaindazole CCR1 antagonist clinical candidates. Bioorg Med Chem Lett. 2019 Feb 1;29(3):441-448.

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