

AZD-5069

Chemical Properties

CAS No. : 878385-84-3

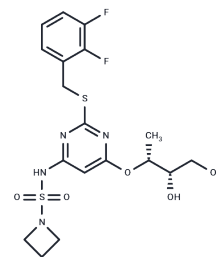
Formula: C₁₈H₂₂F₂N₄O₅S₂

Molecular Weight: 476.52

Store at low temperature

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	AZD-5069 is a chemokine receptor 2 antagonist (CXCR2; IC ₅₀ = 0.79 nM).
Targets(IC ₅₀)	CXCR
In vitro	AZD5069 inhibited neutrophil chemotaxis, with a pA ₂ of approximately 9.6, and adhesion molecule expression, with a pA ₂ of 6.9, in response to CXCL1[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (524.64 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: 10 mg/mL (20.99 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (20.99 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.0985 mL	10.4927 mL	20.9855 mL
5 mM	0.4197 mL	2.0985 mL	4.1971 mL
10 mM	0.2099 mL	1.0493 mL	2.0985 mL
50 mM	0.042 mL	0.2099 mL	0.4197 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

Nicholls D J , Wiley K , Dainty I , et al. Pharmacological Characterization of AZD5069, a Slowly Reversible CXCR2 Antagonist[J]. Journal of Pharmacology and Experimental Therapeutics, 2015, 353(2):340-350.

Norman, Peter. Evidence on the identity of the CXCR2 antagonist AZD-5069[J]. Expert Opinion on Therapeutic Patents, 2013, 23(1):113-117.

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