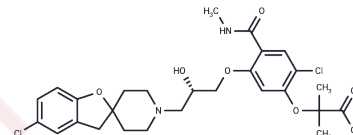


AZD-4818

Chemical Properties

CAS No. : 1003566-93-5
 Formula: C₂₇H₃₂Cl₂N₂O₇
 Molecular Weight: 567.46
 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-4818 (CCR1 antagonist) is a chemokine CCR1 antagonist for the treatment of chronic obstructive pulmonary disease.
Targets(IC50)	CCR

Solubility Information

Solubility	Methanol: 5 mg/mL (8.81 mM),Sonication is recommended. DMSO: 1 mg/mL (1.76 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: 1 mg/mL (1.76 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	1.7622 mL	8.8112 mL	17.6224 mL
5 mM	0.3524 mL	1.7622 mL	3.5245 mL
10 mM	0.1762 mL	0.8811 mL	1.7622 mL
50 mM	0.0352 mL	0.1762 mL	0.3524 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

Gilchrist A, Gauntner TD, Fazzini A, Alley KM, Pyen DS, Ahn J, Ha SJ, Willett A, Sansom SE, Yarfi JL, Bachovchin KA, Mazzoni MR, Merritt JR. Identifying bias in CCR1 antagonists using radiolabelled binding, receptor internalization, β -arrestin translocation and chemotaxis assays. *Br J Pharmacol*. 2014 Nov;171(22):5127-38. doi: 10.1111/bph.12835. PubMed PMID: 24990525; PubMed Central PMCID: PMC4253460.

Olsson B, Borgström L, Lundbäck H, Svensson M. Validation of a general in vitro approach for prediction of total lung deposition in healthy adults for pharmaceutical inhalation products. *J Aerosol Med Pulm Drug Deliv*. 2013 Dec;26(6):355-69. doi: 10.1089/jamp.2012.0986. Epub 2013 Feb 19. PubMed PMID: 23421897.

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