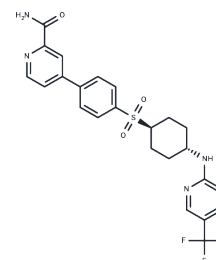


CCR6 inhibitor 1

Chemical Properties

CAS No. :	2437547-04-9
Formula:	C ₂₄ H ₂₃ F ₃ N ₄ O ₃ S
Molecular Weight:	504.52
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	CCR6 inhibitor 1 is an effective and selective inhibitor of CCR6 (IC ₅₀ of monkey and human CCR6 was 0.45 nM and 6 nM, respectively). CCR6 is associated with both autoimmune and non-autoimmune diseases, so CCR6 inhibitor 1 is useful for in vitro and in vivo pathophysiology studies as a small molecule inhibitor of CCR6.
Targets(IC ₅₀)	CCR
In vitro	CCR6 inhibitor 1 in human CCR6-transfected CHO cells showed a good correlation between Gi signal inhibitory activity and cell migration inhibitory activity, which could effectively inhibit CCR6-dependent cell migration and ERK phosphorylation increase in human primary cells[1].

Solubility Information

Solubility	DMSO: 112.5 mg/mL (222.98 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: 4 mg/mL (7.93 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	1.9821 mL	9.9104 mL	19.8208 mL
5 mM	0.3964 mL	1.9821 mL	3.9642 mL
10 mM	0.1982 mL	0.991 mL	1.9821 mL
50 mM	0.0396 mL	0.1982 mL	0.3964 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

Tawaraishi T, et al. Identification of a novel series of potent and selective CCR6 inhibitors as biological probes. *Bioorg Med Chem Lett.* 2018 Oct 1;28(18):3067-3072.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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