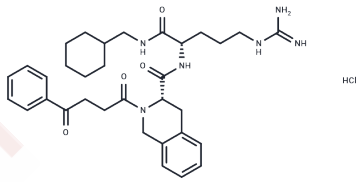
Data Sheet (Cat.No.T64661)

TargetMol

PS372424 hydrochloride

Chemical Properties



CAS No. : 1596362-29-6

Formula: C33H45ClN6O4

Molecular Weight: 625.2

Storage: Store at low temperature
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	PS372424 hydrochloride is a three-amino-acid fragment of CXCL10 that functions as a specific human CXCR3 agonist with anti-inflammatory activity, capable of inhibiting human T-cell migration in humanized arthritic inflammation models.
Targets(IC50)	CXCR
In vitro	In cells expressing CXCR3-A, stimulation with PS372424 hydrochloride resulted in a peak in intracellular calcium levels after 20 seconds, and after 5 minutes of stimulation, PS372424 increased phosphorylated p-Erk1 and phosphorylated p-Erk2 in U87-CXCR3-A cells.[1]

Solubility Information

Solubility	DMSO: 200 mg/mL (319.9 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: 5 mg/mL (8 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5995 mL	7.9974 mL	15.9949 mL
5 mM	0.3199 mL	1.5995 mL	3.199 mL
10 mM	0.1599 mL	0.7997 mL	1.5995 mL
50 mM	0.032 mL	0.1599 mL	0.3199 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

Boyé K, et al. The role of CXCR3/LRP1 cross-talk in the invasion of primary brain tumors. Nat Commun. 2017 Nov 17;8(1):1571.