
Product Data Sheet

Product Name: PS372424

Cat. No.: GC37022

Chemical Properties

Cas. No. 914291-61-5

SMILES O=C([C@H]1N(C(CCC(C2=CC=CC=C2)=O)=O)CC3=C(C=CC=C3)C1)N[C@H](C(NCC4CCCCC4)=O)CCCNC(N)=N

Formula $C_{33}H_{44}N_6O_4$ M.Wt 588.74

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

PS372424, a three amino-acid fragment of CXCL10, is a specific human CXCR3 agonist with anti-inflammatory activity, which inhibits the binding of CXCR3 ligand CXCL10 to CXCR3 receptor with IC50 of 42 nM[1][2][3]. CXCR3

PS372424 (10-200 nM; 30 min) causes a concentration-dependent phosphorylation of CCR5 on CXCR3+ T cells not in CXCR3- T cells[1]. Western Blot Analysis[1] Cell Line: CXCR3+ T cells and CXCR3- T cells

[1]. 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. [2]. O'Boyle G, et al. Chemokine receptor CXCR3 agonist prevents human T-cell migration in a humanized model of arthritic inflammation. Proc Natl Acad Sci U S A. 2012 Mar 20;109(12):4598-603. [3]. Stroke IL, et al. Identification of CXCR3 receptor agonists in combinatorial small-molecule libraries. Biochem Biophys Res Commun. 2006 Oct 13;349(1):221-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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