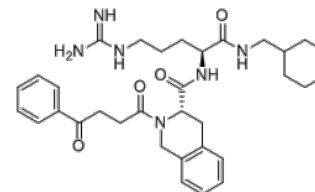


Product Name : PS372424
Cat. No. : PC-21814
CAS No. : 914291-61-5
Molecular Formula : C₃₃H₄₄N₆O₄
Molecular Weight : 588.75
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



CAS: 914291-61-5

Biological Activity

PS372424 is a potent, selective peptidomimetic agonist of human CXC chemokine receptor 3 (**CXCR3**) with EC₅₀ of 1.1 μM in calcium flux assays, binding affinity of 42 nM.

Unlike CXCL11, PS372424 does not stimulate transendothelial T-cell migration.

PS372424 is specific for human CXCR3 but does not activate murine CXCR3.

PS372424 activates ERK in T cells with a similar potency and kinetic to the natural ligand CXCL11.

PS372424 inhibits the migration of T cells toward CXCL11, CXCL12, and CCL5, whereas the CXCR3 antagonist NBI-74330 (Cat#PC-73268) only prevented migration toward CXCL11.

PS372424 demonstrates potent anti-inflammatory activity both in vitro and in a novel humanized in vivo model of rheumatoid arthritis.

References

Graeme O'Boyle, et al. *Proc Natl Acad Sci U S A*. 2012 Mar 20;109(12):4598-603.

Stroke IL, et al. *Biochem Biophys Res Commun*. 2006;349:221-228.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com