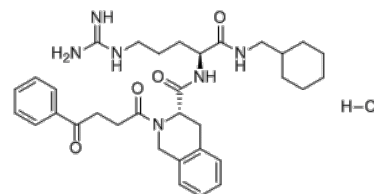


**Product Name** : PS372424 hydrochloride  
**Cat. No.** : PC-21815  
**CAS No.** : 1596362-29-6  
**Molecular Formula** : C<sub>33</sub>H<sub>45</sub>ClN<sub>6</sub>O<sub>4</sub>  
**Molecular Weight** : 625.21  
**Target** : Chemokine Receptor (CCR and CXCR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

PS372424 hydrochloride is a potent, selective peptidomimetic agonist of human CXC chemokine receptor 3 (CXCR3) with EC<sub>50</sub> 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!**

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