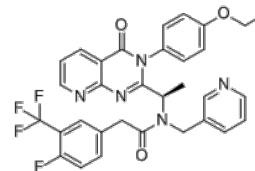


Product Name : NBI-74330
Cat. No. : PC-73268
CAS No. : 855527-92-3
Molecular Formula : C₃₂H₂₇F₄N₅O₃
Molecular Weight : 605.58
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

NBI-74330 (VUF10472) is a potent, selective CXC chemokine receptor 3 (**CXCR3**) antagonist, inhibits [(125)I]CXCL10 and [(125)I]CXCL11 specific binding with K_i of 1.5 and 2.3 nM, respectively.

NBI-74330 exhibited specific inhibition of functional responses mediated by CXCR3, such as ligand-induced guanosine 5'-O-(3-[(35)S]thio)triphosphate [(35)S]GTPγS binding, calcium mobilization, and cellular chemotaxis (IC₅₀=7-18 nM).

NBI-74330 showed no significant inhibition of chemotactic responses to other chemokines and did not inhibit radioligand binding to a panel of nonchemokine G-protein coupled receptors.

NBI-74330 block CXCR3-mediated signaling in peritonitis and diet-induced atherosclerosis, attenuates atherosclerotic plaque formation in LDL receptor-deficient mice.

References

Heise CE, et al. *J Pharmacol Exp Ther*. 2005 Jun;313(3):1263-71.

Jopling LA, et al. *Br J Pharmacol*. 2007 Dec;152(8):1260-71.

van Wanrooij EJ, et al. *Arterioscler Thromb Vasc Biol*. 2008 Feb;28(2):251-7.

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

E-mail: tech@probechem.com