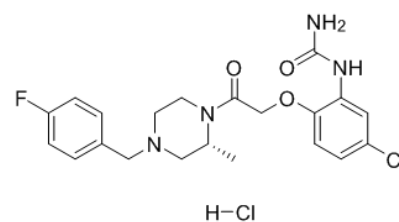


Product Name : BX471 hydrochloride
Cat. No. : PC-42890
CAS No. : 288262-96-4
Molecular Formula : C₂₁H₂₅Cl₂FN₄O₃
Molecular Weight : 471.3526
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

BX471 hydrochloride is a potent, selective, orally available **CCR1** antagonist with K_i of 1 nM for hCCR1, displays 100 times less affinity for rat CCR1.

BX471 shows 10,000-fold selectivity for CCR1 compared with 28 GPCRs.

BX471 displays CCR1 ligands MIP-1α, RANTES, and MCP-3 with high affinity (K_i=1-5.5 nM), inhibits a number of CCR1-mediated effects including Ca(2+) mobilization, increase in extracellular acidification rate, CD11b expression.

BX471 effectively reduces disease in a rat experimental allergic encephalomyelitis model of multiple sclerosis.

References

Horuk R, et al. *J Biol Chem*. 2001 Feb 9;276(6):4199-204.

Anders HJ, et al. *J Clin Invest*. 2002 Jan;109(2):251-9.

Strasly M, et al. *Blood*. 2004 Jan 1;103(1):40-9.

Liang M, et al. *J Biol Chem*. 2000 Jun 23;275(25):19000-8.

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

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