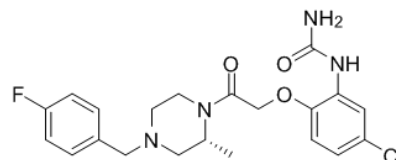


**Product Name** : BX471  
**Cat. No.** : PC-42889  
**CAS No.** : 217645-70-0  
**Molecular Formula** : C<sub>21</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 434.8917  
**Target** : Chemokine Receptor (CCR and CXCR)  
**Solubility** : DMSO: ≥ 51 mg/mL



## Biological Activity

BX471 is a potent, selective, non-peptide **CCR1** antagonist with K<sub>i</sub> 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<sub>i</sub>=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

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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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