CCR1 antagonist 11 hydrochloride

Cat. No.: HY-114097A

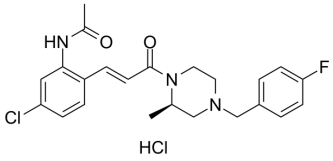
Molecular Formula: $C_{23}H_{26}Cl_2FN_3O_2$

Molecular Weight: 466.38

Target: CCR

Pathway: GPCR/G Protein; Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CCR1 antagonist 11 hydrochloride (A1B1) is an orally active CCR1 antagonist with the IC_{50} values of 0.03 μM, 0.58 μM and 0.32 μM for hCCR1, mCCR1 and rCCR1, respectively. CCR1 antagonist 11 hydrochloride can be used in the study of rheumatoid arthritis and other related inflammatory diseases[1].
IC_{50} & Target	IC50: 0.03 μM (hCCR1)、0.58 μM (mCCR1), 0.32 μM (rCCR1)[1].
In Vitro	CCR1 antagonist 11 hydrochloride(A1B1) inhibits MIP-1α-induced Ca^{2+} mobilization in THP-1 cells with the IC_{50} value of 1 nM [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The pharmacokinetic parameters of CCR1 antagonist 11 hydrochloride(A1B1) in rat

Parameters	PO (60 mg/kg)
$t_{1/2}$ (h)	16.5
C_{max} (μM/L)	0.85
AUC (h*ng/mL)	784
F (%)	95

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Laszlo Revesz, et al. Novel CCR1 antagonists with oral activity in the mouse collagen induced arthritis. Bioorg Med Chem Lett. 2005 Dec 1;15(23):5160-4.

Caution: Product has not been fully validated for medical applications. For research use only.

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