



AMD 3465 (hexahydrobromide)

Catalog No: tcsc2784

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 185991-07-5
Formula: C ₂₄ H ₄₄ Br ₆ N ₆
Pathway: GPCR/G Protein;Immunology/Inflammation;Anti-infection
Target: CXCR;CXCR;HIV
Purity / Grade: >98%
Solubility: H2O : ≥ 38 mg/mL (42.41 mM)
Alternative Names: GENZ-644494 hexahydrobromide
Observed Molecular Weight: 896.07



Product Description

AMD 3465 hexahydrobromide is a potent antagonist of **CXCR4**, inhibits binding of 12G5 mAb and CXCL12 AF647 to **CXCR4**, with **IC**₅₀ s of 0.75 nM and 18 nM in SupT1 cells; AMD 3465 also potently inhibits the replication of **X4 HIV** strains (**IC**₅₀: 1-10 nM), but has no effect on CCR5-using (R5) viruses.

IC50 & Target: IC50: 0.75 nM (12G5 mAb-CXCR4), 18 nM (CXCL12AF647-CXCR4), 1-10 nM (X4 HIV)[1]

In Vitro: AMD 3465 hexahydrobromide is a potent antagonist of CXCR4, inhibits binding of 12G5 mAb and CXCL12^{AF647} to CXCR4, with IC₅₀s of 0.75 nM and 18 nM in SupT1 cells. AMD 3465 (50 nM) totally blocks CXCL12-induced calcium mobilization, with an IC₅₀ of 17 nM, but shows no effect on the intracellular calcium fluxes elicited by the CCR5 ligands RANTES, LD78 β and MIP-1 β in U87.CD4.CCR5 cells. AMD 3465 also potently inhibits the replication of X4 HIV strains (IC₅₀: 1-10 nM), but has no effect on CCR5-using (R5) viruses. AMD3465 is cytotoxic to the X4 HIV-1 strains IIIB, NL4.3, RF and HE with an IC₅₀ ranging from 6 to 12 nM. The IC₅₀ for suppression of the HIV-2 strains ROD and EHO is 12.3 nM^[1]. AMD 3465 inhibits CXCL-12-induced growth in U87 and Daoy cells. AMD 3465 treatment stimulates the phosphorylation of Erk1/2 in U87 and Daoy cells^[2].

In Vivo: AMD 3465 (2.5 mg/kg/d, s.c. for 5 weeks) significantly blocks the growth of U87 GBM and Daoy xenografts^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!