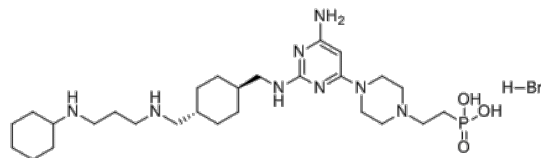


Product Name : GPC-100 hydrobromide
Cat. No. : PC-21292
CAS No. : 1191450-19-7
Molecular Formula : C₂₇H₅₂BrN₈O₃P
Molecular Weight : 647.64
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

GPC-100 (TG-0054, Burixafor) is a novel small molecule antagonist of CXCR4, shows competitive inhibition of CXCL12 binding to CXCR4 with K_i of 1.6 nM.

GPC-100 (TG-0054, Burixafor) demonstrates distinct divergence from AMD3100, and has a higher affinity for CXCR4 than AMD3100 ($K_i=40$ nM).

GPC-100 (TG-0054, Burixafor) dose dependently inhibits CXCL12-induced calcium flux in MDA-MB-231 cells overexpressing CXCR4 with IC_{50} value of 30 nM.

GPC-100 (TG-0054, Burixafor) inhibits CXCL12 mediated recruitment of β -arrestin to CXCR4 with IC_{50} value of 207 nM in the PRESTO-TANGO β -arrestin assay.

GPC-100 (TG-0054, Burixafor) efficiently blocks CXCL12-mediated migration in U937 and MM.1S cells with IC_{50} of 48 nM and 28 nM, respectively.

References

Sukhtankar DD, et al. PLoS One. 2023 Oct 25;18(10):e0287863.

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

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