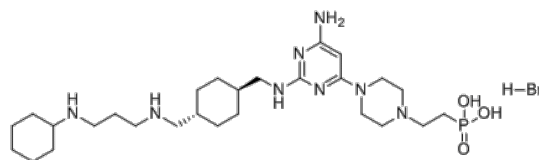


Product Name : TG-0054
Cat. No. : PC-21292
CAS No. : 1191450-19-7
Molecular Formula : C₂₇H₅₂BrN₈O₃P
Molecular Weight : 647.64
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

TG-0054 (Burixafor, GPC-100) 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 IC₅₀ value of 30 nM.

GPC-100 (TG-0054, Burixafor) inhibits CXCL12 mediated recruitment of β-arrestin to CXCR4 with IC₅₀ 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 IC₅₀ 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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