Bioactive Molecules, Building Blocks, Intermediates

Data Sheet

Product Name: Burixafor (hydrobromide)
Cat. No.: CS-0085196
CAS No.: 1191450-19-7
Molecular Formula: C_{27}H_{51}N_{8}O_{3}P_{5/2}HBr
Molecular Weight: 769.01
Target: CXCR
Pathway: GPCR/G Protein; Immunology/Inflammation
Solubility: H2O : 50 mg/mL (65.02 mM; Need ultrasonic)

BIOLOGICAL ACTIVITY:
Burixafor hydrobromide (TG-0054 hydrobromide) is an orally bioavailable and potent antagonist of CXCR4 and a well water soluble anti-angiogenic drug that is of potential value in treating choroid neovascularization[^1]. Burixafor hydrobromide (TG-0054 hydrobromide) mobilizes mesenchymal stem cells, attenuates inflammation, and preserves cardiac systolic function in a porcine model of myocardial infarction[^2]. IC50 & Target: CXCR4[^1].

References:

CAIndexNames:

SMILES:
NC1=CC(N2CCN(CCP(O)(O)=O)C)C2=NC(NC[C@H3]3CC[C@H]4(CNCCNC4CCCCC4)CC3)=N1[H]Br:[S/2]