

Product Name : SX-517

Synonyms : Phenylboronic Acid;SX 517;SX517

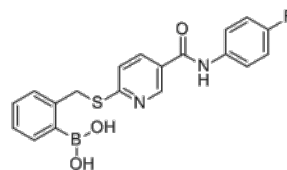
Cat No. : M10972

CAS Number : 1240494-13-6

Molecular Formula : C₁₉H₁₆BFN₂O₃S

Formula Weight : 382.22

Chemical Name : 2-[5-(4-Fluorophenylcarbamoyl)pyridin-2-ylsulfanylmethyl]phenylboronic Acid



Description : A potent, specific, noncompetitive dual CXCR1 and CXCR2 antagonist with IC₅₀ of 38 nM (vs. CXCL1) and 36 nM (vs. CXCL8), respectively; inhibits CXCL1-induced Ca²⁺ flux in human PMNs but has no effect on the Ca²⁺ flux induced by C5a, fMLF, or PAF; antagonizes CXCL8-induced [(35)S]GTPγS binding (IC₅₀=60 nM) and ERK1/2 phosphorylation in recombinant HEK293 cells expressed CXCR2; significantly inhibits inflammation in an in vivo murine model (0.2 mg/kg iv).

Pathway : GPCR/G Protein

Target : Chemokine Receptor

Receptor : Chemokine Receptor

Solubility : —

SMILES : OB(C1=CC=CC=C1CSC2=NC=C(C(NC3=CC=C(F)C=C3)=O)C=C2)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Maeda DY, et al. J Med Chem. 2014 Oct 23;57(20):8378-97. | 2. Schuler AD, et al. Bioorg Med Chem Lett. 2015 Sep 15;25(18):3793-7.