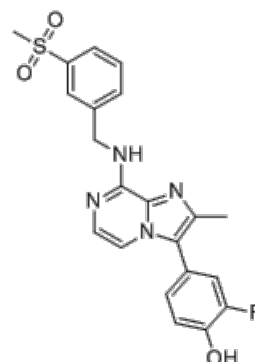


Product Name : BF738735
Synonyms : BF 738735;BF-738735
Cat No. : M11855
CAS Number : 1436383-95-7
Molecular Formula : C₂₁H₁₉FN₄O₃S



Formula Weight : 426.47
Chemical Name : 2-fluoro-4-(2-methyl-8-((3-(methylsulfonyl)benzyl)amino)imidazo[1,2-a]pyrazin-3-yl)phenol

Description : BF738735 is a novel, broad-spectrum inhibitor of enterovirus replication (EC₅₀=4-71 nM) that specifically targets host cell factor PI4KIIIβ with IC₅₀ of 5.7 nM, 300-fold less potent for PI4KIIIα (IC₅₀=1.7 μM); blocks viral RNA replication with IC₅₀ of 77 nM in luciferase assays, strongly inhibits CVB3 and EV71 replicon replication at 1-5 μM; reduces the PI4P levels at the Golgi complex through a direct inhibition of PI4KIIIβ activity.

Pathway : Microbiology/Virology

Target : Enterovirus

Receptor : Enterovirus

Solubility : DMSO : 125 mg/mL 293.11 mM

SMILES : OC1=CC=C(C(=C1F)C2=C(C)N=C3C(NCC4=CC=CC(S(=O)(C)=O)=C4)=NC=CN3)C2)C(=O)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. MacLeod AM, et al. ACS Med Chem Lett. 2013 May 8;4(7):585-9. | 2. Melia CE, et al. Cell Rep. 2017 Oct 17;21(3):587-599. | 3. van der Schaar HM, et al. Antimicrob Agents Chemother. 2013 Oct;57(10):4971-81. | 4. Ulferts R, et al. Antimicrob Agents Chemother. 2016 Apr 22;60(5):2627-38.