

Product Name : PI3K/mTOR Inhibitor-2

Synonyms : —

Cat No. : M26375

CAS Number : 1848242-58-9

Molecular Formula : C₂₀H₁₃ClF₂N₄O₄S

Formula Weight : 478.85

Chemical Name : —

Description : PI3K/mTOR Inhibitor-2 is a potent pan inhibitor of PI3K and mTOR with IC₅₀s of 3.4, 34, 16, 1 and 4.7 nM for PI3K α , PI3K β , PI3K δ , PI3K γ and mTOR. PI3K/mTOR Inhibitor-2 has antitumor activity. (In Vitro): PI3K/mTOR Inhibitor-2 exhibited high enzyme activity against PI3K and mTOR, potent suppression of Akt and p70s6k phosphorylation with IC₅₀s of 11.6 and 89.2 nM in cell assays, and good pharmacokinetic profile. (In Vivo): PI3K/mTOR Inhibitor-2 demonstrated in vivo efficacy in a PC-3M tumor xenograft model.

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : HMG-CoA reductase

Solubility : In Vitro: ?DMSO : 8.33 mg/mL (17.40 mM)

SMILES : COc1ncc(cc1NS(=O)(=O)c1ccc(F)cc1F)-c1ccc2ncc(Cl)c(=O)n2c1

Storage : (-20°C)

Stability : \geq 2 years

Reference :

1. Moriceau G, Roelofs AJ, Brion R, Redini F, Ebetion FH, Rogers MJ, Heymann D. Synergistic inhibitory effect of apomine and lovastatin on osteosarcoma cell growth. *Cancer*. 2012 Feb 1; 118(3):750-60.