

产品名称 : CHMFL-PI3KD-317

同义词 : ——

产品货号 : M32845

CAS Number : 2244992-76-3

分子式 : C₂₁H₂₄ClN₅O₃S₂

分子量 : 494.03

化学全名 : ——

产品描述 : CHMFL-PI3KD-317 is a highly potent, selective and orally active PI3K δ inhibitor, with an IC₅₀ of 6 nM, and exhibits over 10-1500 fold selectivity over other class I, II and III PIKK family isoforms, such as PI3K α (IC₅₀, 62.6 nM), PI3K β (IC₅₀, 284 nM), PI3K γ (IC₅₀, 202.7 nM), PIK3C2A (IC₅₀, >10000 nM), PIK3C2B (IC₅₀, 882.3 nM), VPS34 (IC₅₀, 1801.7 nM), PI4KIII A (IC₅₀, 574.1 nM) and PI4KIII B (IC₅₀, 300.2 nM). CHMFL-PI3KD-317 inhibits PI3K δ -mediated Akt T308 phosphorylation in Raji cells, with an EC₅₀ of 4.3 nM. CHMFL-PI3KD-317 has antiproliferative effects on cancer cells.

通路 : PI3K/Akt/mTOR signaling

靶点 : PI3K

受体 : PI3K | PI4K

溶解度 : In Vitro: ?DMSO 中的溶解度 : 250 mg/mL (506.04 mM; 超声助溶)

SMILES : CC(C)[C@H](N)C(=O)Nc1nc(C)c(s1)-c1cnc(Cl)c(NS(=O)(=O)c2ccccc(C)c2)c1

存储条件 : (-20℃)

稳定性 : ≥ 2 years

参考文献 :

1. Liang X, et al. Discovery of (S)-2-amino-N-(5-(6-chloro-5-(3-methylphenylsulfonamido)pyridin-3-yl)-4-methylthiazol-2-yl)-3-methylbutanamide (CHMFL-PI3KD-317) as a potent and selective phosphoinositide 3-kinase delta (PI3K δ) inhibitor. Eur J Med Chem. 2018?