

Product Name : PI-103 hydrochloride

Synonyms : PI 103 hydrochloride; PI103 hydrochloride

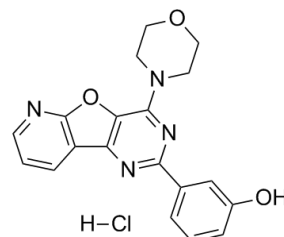
Cat No. : M14283

CAS Number : 371935-79-4

Molecular Formula : C₁₉H₁₇ClN₄O₃

Formula Weight : 384.82

Chemical Name : Phenol, 3-[4-(4-morpholinyl)pyrido[3',2':4,5]furo[3,2-d]pyrimidin-2-yl]-, hydrochloride (1:1)



Description : A potent, dual class I PI3K/mTOR inhibitor with IC₅₀ of 2/3/3/15/ for p110α/β/δ/γ, respectively; also inhibits TORC1 (>80% inhibition at 0.5 μM) and DNA-PK (IC₅₀=14 nM), 15- to 20-fold less activity against class II PI3K C2β (IC₅₀=43 nM), >1,300-fold selectivity over the class III PI3K Vsp34; potently inhibits proliferation and invasion of a wide variety of human cancer cells in vitro; shows activity in cancer xenograft models.

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : PI3K

Solubility : DMSO: 4.1 mg/mL; H₂O: < 4 mg/mL

SMILES : C1COCCN1C2=NC(=NC3=C2OC4=C3C=CC(=N4)C5=CC(=CC=C5)O)C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Fan QW, et al. Cancer Cell. 2006 May;9(5):341-9. | 2. Raynaud FI, et al. Cancer Res. 2007 Jun 15;67(12):5840-50. | 3. Fan QW, et al. Cancer Res. 2007 Sep 1;67(17):7960-5. | 4. Kojima K, et al. Leukemia. 2008 Sep;22(9):1728-36.