

Product Name : GSK-461364

Synonyms : GSK-461364A

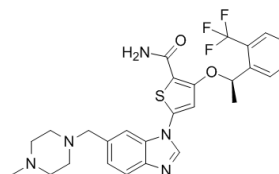
Cat No. : M16654

CAS Number : 929095-18-1

Molecular Formula : C₂₇H₂₈F₃N₅O₂S

Formula Weight : 543.60

Chemical Name : 2-Thiophenecarboxamide, 5-[6-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]-3-[(1R)-1-[2-(trifluoromethyl)phenyl]ethoxy]-



Description : A potent, selective, and reversible ATP-competitive PLK1 inhibitor with K_i of 2.2 nM; >390-fold greater selectivity for Plk1 than for Plk2 and Plk3 and 1,000-fold greater selectivity than for a panel of 48 other kinases; shows antiproliferative activity against >120 tumor cell lines and potently inhibits the proliferation with IC₅₀s of <100 nM; shows clear antitumor activity in human tumor xenograft models. Blood Cancer Phase 1 Clinical

Pathway : Cell Cycle/DNA Damage

Target : PLK

Receptor : PLK1

Solubility : 10 mM in DMSO

SMILES : O=C(C1=C(C(=O)C@H)(C2=CC=CC=C2C(F)(F)F)C)C=C(N3C=NC4=CC=C(CN5CCN(C)CC5)C=C34)S1)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Olmos D, et al. Clin Cancer Res. 2011 May 15;17(10):3420-30. 2. Gilmartin AG, et al. Cancer Res. 2009 Sep 1;69(17):6969-77. 3. Degenhardt Y, et al. Mol Cancer Ther. 2010 Jul;9(7):2079-89.