

Product Name : Dovitinib

Synonyms : CHIR-258;TKI258;TKI-258;TKI 258;CHIR258;CHIR 258

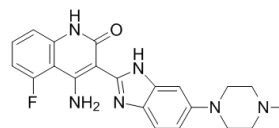
Cat No. : M14394

CAS Number : 405169-16-6

Molecular Formula : C₂₁H₂₁FN₆O

Formula Weight : 392.43

Chemical Name : 2(1H)-Quinolinone, 4-amino-5-fluoro-3-[6-(4-methyl-1-piperazinyl)-1H-benzimidazol-2-yl]-



Description : A novel, multitargeted RTK inhibitor of class III, IV, and V RTKs with IC₅₀ of 1/2/36/8/9 nM for FLT3/c-KIT/c-Fms/FGFR1/FGFR3, respectively; also inhibits VEGFR1/2/3 (IC₅₀=10/13/8 nM) and PDGFRβ/α (IC₅₀=27/210 nM); selectively inhibits the growth of B9 cells and human myeloma cell lines expressing wild-type (WT) or activated mutant FGFR3; inhibits downstream ERK 1/2 phosphorylation and induces cytostatic and cytotoxic effects; demonstrates activity in a xenograft mouse model of FGFR3 MM; orally active. Blood Cancer Phase 2 Clinical

Pathway : Angiogenesis

Target : FGFR

Receptor : c-Kit;FGFR1;FGFR3;FLT3;VEGFR3/FLT4

Solubility : DMSO: 25 mg/mL

SMILES : CN1CCN(CC1)C2=CC3=C(C=C2)N/C(=C/4\C(=C5C(=NC4=O)C=CC=C5F)N)/N3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Trudel S, et al. Blood. 2005 Apr 1;105(7):2941-8. | 2. Lopes de Menezes DE, et al. Clin Cancer Res. 2005 Jul 15;11(14):5281-91. | 3. Xin X, et al. Clin Cancer Res. 2006 Aug 15;12(16):4908-15.