

Product Name : Bafetinib

Synonyms : INNO-406; NS-187

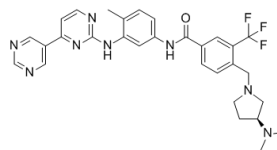
Cat No. : M16227

CAS Number : 859212-16-1

Molecular Formula : C₃₀H₃₁F₃N₈O

Formula Weight : 576.62

Chemical Name : Benzamide, N-[3-([4,5'-bipyrimidin]-2-ylamino)-4-methylphenyl]-4-[[[(3S)-3-(dimethylamino)-1-pyrrolidinyl]methyl]-3-(trifluoromethyl)-



Description : A potent and selective dual Abl/Lyn tyrosine kinase inhibitor with IC₅₀ of 5.9 nM and 198 nM, respectively; more potent and specific against Bcr-Abl than imatinib, also inhibits the phosphorylation of CrkL and ERK in BaF3/E255K cells; inhibits the phosphorylation of Bcr-Abl harboring the M244V, G250E, Q252H, Y253F, E255K, E255V, F317L, M351T, E355G, F359V, H396P, or F486S mutations, but does not inhibit the phosphorylation of the T315I mutant; prolongs the survival of mice injected with leukemic cells expressing all mutated Bcr-Abl. Blood Cancer Phase 2 Clinical

Pathway : Angiogenesis

Target : Bcr-Abl

Receptor : Abl; Lyn

Solubility : DMSO: ≥ 42 mg/mL

SMILES : O=C(NC1=CC=C(C)C(NC2=NC=CC(C3=CN=CN=C3)=N2)=C1)C4=CC=C(CN5C[C@@H](N(C)C)CC5)C(C(F)(F)F)=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Kimura S, et al. Blood. 2005 Dec 1;106(12):3948-54. 2. Naito H, et al. Leuk Res. 2006 Nov;30(11):1443-6. 3. Yokota A, et al. Blood. 2007 Jan 1;109(1):306-14.