

Product Name : Nilotinib monohydrochloride monohydrate

Synonyms : AMN-107;AMN107;Tasigna

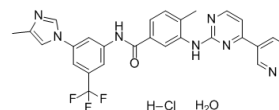
Cat No. : M16612

CAS Number : 923288-90-8

Molecular Formula : C₂₈H₂₅ClF₃N₇O₂

Formula Weight : 583.99

Chemical Name : Benzamide, 4-methyl-N-[3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl]-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]-, hydrochloride, hydrate (1:1:1)



Description : A potent, selective, orally available inhibitor of both native and mutant Bcr-Abl with IC₅₀ of 20-80 nM; inhibits proliferation of Ba/F3 cells expressing G250E, E255K(V), F317L, M351T, F486S, M244V, L248R, Q252H, Y253H, E255K, E279K, E282D, V289S, and L348M Bcr-Abl mutants at <1 μM; also inhibits activated forms of PDGFR and c-Kit with IC₅₀ of 30-200 nM; prolongs survival of mice with leukemia due to imatinib-resistant mutants of Bcr-Abl. Blood Cancer Approved

Pathway : Angiogenesis

Target : Bcr-Abl

Receptor : Bcr-Abl

Solubility : DMSO: ≥ 33 mg/mL

SMILES : CC1=C(C=C(C=C1)C(=O)NC2=CC(=CC(=C2)C(F)(F)F)N3C=C(N=C3)C)NC4=NC=CC(=N4)C5=CN=CC=C5.O.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Weisberg E, et al. Cancer Cell. 2005 Feb;7(2):129-41. | 2. O'Hare T, et al. Cancer Res. 2005 Jun 1;65(11):4500-5. | 3. Golemovic M, et al. Clin Cancer Res. 2005 Jul 1;11(13):4941-7. | 4. Stover EH, et al. Blood. 2005 Nov 1;106(9):3206-13.