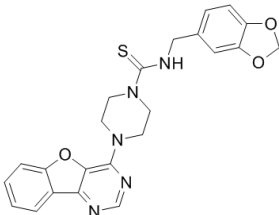


Product Name	: Amuvatinib
Synonyms	: MP-470;MP 470;MP470;HPK-56;HPK56
Cat No.	: M16182
CAS Number	: 850879-09-3
Molecular Formula	: C ₂₃ H ₂₁ N ₅ O ₃ S
Formula Weight	: 447.51
Chemical Name	: 1-Piperazinecarbothioamide, N-(1,3-benzodioxol-5-ylmethyl)-4-benzofuro[3,2-d]pyrimidin-4-yl-
Description	 A novel RTK inhibitor that effectively inhibits c-Kit, PDGFRα and Flt3 with IC₅₀ of 10 nM, 40 nM and 81 nM, respectively; also inhibits several mutants of c-Kit and Axl; inhibits prostate cancer cell proliferation (IC₅₀=4-8 μM), promotes cell cycle arrest and apoptosis; completely inhibites phosphorylation of the HER members (HER1, 2, 3), binding of PI3K regulatory unit p85 to HER3 and downstream Akt activity in combination with Erlotinib; exhibits synergistic effect in LNCaP mouse xenograft model. Lung Cancer Phase 2 Discontinued
Pathway	: Angiogenesis
Target	: c-Kit
Receptor	: c-Kit(D816H);FLT3(D835Y);PDGFR α (V561D)
Solubility	: 10 mM in DMSO
SMILES	: <chem>S=C(N1CCN(C2=C(OC3=CC=CC=C34)C4=NC=N2)CC1)NCC5=CC=C(OC6)C6=C5</chem>
Storage	: (-20°C)
Stability	: $\geq$ 2 years
Reference	:

1. Mahadevan D, et al. Oncogene. 2007 Jun 7;26(27):3909-19. | 2. Qi W, et al. BMC Cancer. 2009 May 11;9:142. | 4. Bearss DJ, et al. US Patent, US/2008/0226747.