

Product Name : Motesanib diphosphate

Synonyms : AMG-706;Motesanib;AMG706;AMG 706

Cat No. : M16223

CAS Number : 857876-30-3

Molecular Formula : C₂₂H₂₉N₅O₉P₂

Formula Weight : 569.44

Chemical Name : 3-Pyridinecarboxamide, N-(2,3-dihydro-3,3-dimethyl-1H-indol-6-yl)-2-[(4-pyridinylmethyl)amino]-, phosphate (1:2)

Description

A potent, orally bioavailable, multikinase inhibitor inhibitor of VEGFR1/2/3, PDGFR and c-Kit with IC₅₀ of 2-6 nM, 84 nM and 8 nM, respectively; also displays activity against Ret (IC₅₀=59 nM), no activities against EGFR, Src, and p38; inhibits human endothelial cell proliferation induced by VEGF, but not by bFGF in vitro; potently inhibits VEGF-induced angiogenesis in the rat models.Lung Cancer Phase 3 Discontinued

Pathway : Angiogenesis

Target : VEGFR

Receptor : Kit;VEGFR1;VEGFR2;VEGFR2/Fik1;VEGFR3

Solubility : 10 mM in DMSO

SMILES : OP(O)(O)=O.OP(O)(O)=O.CC1(C)CNC2=C1C=CC(NC(=O)C1=C(NCC3=CC=NC=C3)N=CC=C1)=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Polverino A, et al. Cancer Res. 2006 Sep 1;66(17):8715-21.| 2. Sherman SI, et al. N Engl J Med. 2008 Jul 3;359(1):31-42.| 3. Coxon A, et al. Clin Cancer Res. 2009 Jan 1;15(1):110-8.| 4. Caenepeel S, et al. J Exp Clin Cancer Res. 2010 Jul 15;29:96.

