

Product Name : Tivantinib

Synonyms : ARQ-197

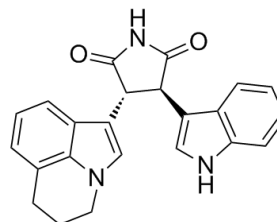
Cat No. : M16511

CAS Number : 905854-02-6

Molecular Formula : C₂₃H₁₉N₃O₂

Formula Weight : 369.42

Chemical Name : 2,5-Pyrrolidinedione, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-(1H-indol-3-yl)-, (3R,4R)-



Description : Tivantinib (ARQ-197) is a potent, selective, non-ATP-competitive inhibitor of c-Met with K_i of 355 nM; has no inhibition for EGFR, InsR, PDGFRα, FGFR1 and FGFR4 etc., only modest inhibition (35%) for Ron at 30 μM; inhibits constitutive c-Met phosphorylation in HT29 and MKN-45 cells, and HGF-induced c-Met phosphorylation in MDA-MB-231 and NCI-H441 cells with IC₅₀ of 100-300 nM; shows antiproliferative activity against multiple cancer cell lines (IC₅₀=0.03-30 μM); exerts tumor growth inhibition in multiple mouse xenograft; orally active. Liver Cancer Phase 3 Clinical

Pathway : Angiogenesis

Target : c-Met/HGFR

Receptor : c-Met

Solubility : 10 mM in DMSO

SMILES : O=C([C@@H](C1=CN2CCCC3=C2C1=CC=C3)[C@@H]4C5=CN(C6=C5C=CC=C6)NC4=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Munshi N, et al. Mol Cancer Ther. 2010 Jun;9(6):1544-53. | 2. Eathiraj S, et al. J Biol Chem. 2011 Jun 10;286(23):20666-76. | 3. Previdi S, et al. Mol Cancer Ther. 2012 Jan;11(1):214-23.