

Product Name : Adavosertib
Synonyms : AZD-1775; MK-1775

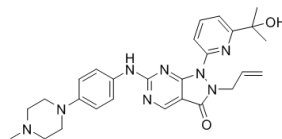
Cat No. : M16820

CAS Number : 955365-80-7

Molecular Formula : C₂₇H₃₂N₈O₂

Formula Weight : 500.60

Chemical Name : 3H-Pyrazolo[3,4-d]pyrimidin-3-one, 1,2-dihydro-1-[6-(1-hydroxy-1-methylethyl)-2-pyridinyl]-6-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-2-(2-propen-1-yl)-



Description : A potent and selective small-molecule inhibitor of Wee1 kinase with IC₅₀ of 5.2 nM; exhibits ATP-competitive and highly selective against other serine/threonine or tyrosine kinases; inhibits phosphorylation of CDC2 at Tyr15 in cells; potentiates tumor growth inhibition in vivo. Lung Cancer Phase 2 Clinical

Pathway : Cell Cycle/DNA Damage

Target : Wee1

Receptor : Wee1

Solubility : 10 mM in DMSO

SMILES : O=C1N(CC=C)N(C2=NC(C(C)(O)C)=CC=C2)C3=NC(NC4=CC=C(N5CCN(C)CC5)C=C4)=NC=C31

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Hirai H, et al. Mol Cancer Ther. 2009 Nov;8(11):2992-3000. | 2. Hirai H, et al. Cancer Biol Ther. 2010 Apr 1;9(7):514-22. | 3. Bridges KA, et al. Clin Cancer Res. 2011 Sep 1;17(17):5638-48.