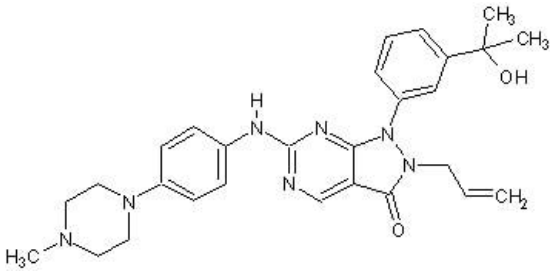
abcam

Product datasheet

MK-1775 ab147242

1 Image

Overview

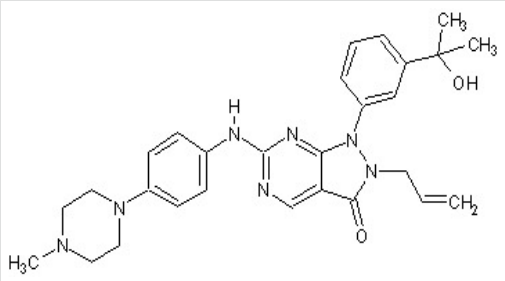
Product name	MK-1775
Description	Potent and selective small-molecule inhibitor of Wee1 kinase
Biological description	Potent and selective small-molecule inhibitor of Wee1 kinase. Inhibits Wee1 (IC_{50} = 5.2 nM) in cell-free assays. Inhibits phosphorylation of CDC2 at Tyr15 (CDC2Y15), a direct substrate of Wee1 kinase in cell-based assays. Acts synergistically with gemcitabine in tumor cells. In a panel of 223 kinases, only 8 were inhibited >80% by 1µM MK-1775.
Purity	> 98%
CAS Number	955365-80-7
Chemical structure	

Properties

Chemical name	1,2-Dihydro-1-[6-(1-hydroxy-1-methylethyl)-2-pyridinyl]-6-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-2-(2-propen-1-yl)-3H-pyrazolo [3,4-d]pyrimidin-3-one
Molecular weight	500.60
Molecular formula	$C_{27}H_{32}N_8O_2$
PubChem identifier	24856436
Storage instructions	Shipped at room temperature. Store at -20°C.
Solubility overview	Soluble in DMSO to 200 mM
Handling	Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	CC(C)(C1=NC(=CC=C1)N2C3=NC(=NC=C3C(=O)N2CC=C)NC4=CC=C(C=C4)N5CCN(CC5)C)O

Source Synthetic

Images



Chemical structure of MK-1775, 955365-80-7

Chemical Structure - MK-1775 (ab147242)

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