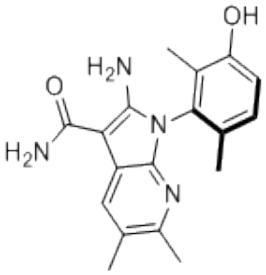
优睿科
— UREIKO —

Data Sheet

WWW.UREIKO-CHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name	:RP-6306
Cat.No.	:URK-V2353
CAS No.	:2719793-90-3
Molecular Formula	:$C_{18}H_{20}N_4O_2$
Molecular Weight	:324.384
Target	:Wee1
Solubility	:



Biological Activity

RP-6306 (RP6306) is a first-in-class, potent and selective, orally available inhibitor of PKMYT1 with IC50 of 2.4 nM, displays less potency (>35-fold) against EphA1-2, and EphB2-4, and Wee1.

RP-6306 inhibits the phosphorylation of CDK1 Thr14 in vivo in tumor tissue and inhibits CCNE1-amplified tumor cell growth in several preclinical xenograft models.

PKMYT1 is an important regulator of CDK1 phosphorylation and is a compelling therapeutic target for the treatment of certain types of DNA damage response cancers due to its established synthetic lethal relationship with CCNE1 amplification.

PKMYT1 is a member of the Wee-kinase family protein kinases, PKMYT1 is involved in G2/M checkpoint regulation of the cell cycle.

References

1. Janek Szychowski, et al. Discovery of an orally bioavailable and selective PKMYT1 inhibitor RP-6306. ChemRxiv. DOI 10.26434/chemrxiv-2022-2g6m6.

JACK@UREIKO-CHEM.COM