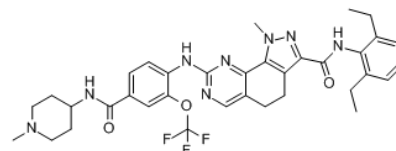


Product Name : NMS-P715
Cat. No. : PC-43014
CAS No. : 1202055-32-0
Molecular Formula : C₃₅H₃₉F₃N₈O₃
Molecular Weight : 676.7311
Target : Monopolar Spindle 1 (Mps1/TTK)
Solubility : DMSO: < 6.9 mg/mL



Biological Activity

NMS-P715 is a potent, selective, orally bioavailable **Mps1** inhibitor with IC₅₀ of 8 nM, K_i of 0.99 nM.

NMS-P715 displays excellent selectivity in vitro against a panel of 60 kinases at 5 uM.

NMS-P715 selectively reduces cancer cell proliferation, leaving normal cells almost unaffected, promotes massive spindle assembly checkpoint (SAC) in U2OS cells with EC₅₀ of 68 nM.

NMS-P715 causes a reduction in G1 phase and a flattening in G2/M phase of the cell cycle accompanied by histone H3 dephosphorylation, PARP cleavage, and histone H2AX phosphorylation.

NMS-P715 inhibits tumor growth in preclinical cancer models.

References

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Slee RB, et al. **Mol Cancer Ther.** 2014 Feb;13(2):307-315.

Maachani UB, et al. **Mol Cancer Res.** 2015 May;13(5):852-62.

Gurden MD, et al. **Cancer Res.** 2015 Aug 15;75(16):3340-54.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com