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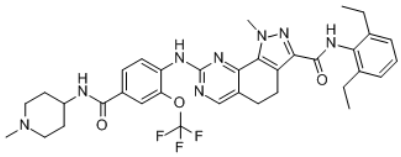
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	NMS-P715
Cat. No.	:	PC-43014
CAS No.	:	1202055-32-0
Molecular Formula	:	$C_{35}H_{39}F_3N_8O_3$
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, Ki 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.

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