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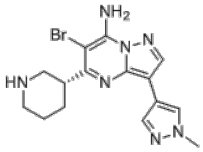
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MK 8776
Cat. No.	:	PC-62476
CAS No.	:	891494-63-6
Molecular Formula	:	$C_{15}H_{18}BrN_7$
Molecular Weight	:	376.25
Target	:	Checkpoint Kinase (Chk)
Solubility	:	10 mM in DMSO



Biological Activity

MK 8776 (SCH 900776) is a potent and functionally selective **CHK1** inhibitor (IC50=3 nM) with minimal intrinsic antagonistic properties.
MK 8776 (SCH 900776) also inhibits CDK2 with IC50 of 160 nM, weak activity for CHK2 and no significant inhibition of cytochrome P450 isoforms.
MK 8776 (SCH 900776) induces dose-dependent suppression of CHK1 pS296 and concomitant accumulation of phospho-RPA signal in U2OS cells.
MK 8776 (SCH 900776) interacts synergistically with DNA antimetabolite agents in vitro and in vivo to selectively induce dsDNA breaks and cell death in the A2780 xenograft model.

References

Guzi TJ, et al. ***Mol Cancer Ther.*** 2011 Apr;10(4):591-602.

Paruch K, et al. ***ACS Med Chem Lett.*** 2010 May 17;1(5):204-8.

Bridges KA, et al. ***Oncotarget***. 2016 Nov 1;7(44):71660-71672.

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