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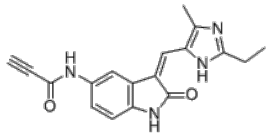
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JH295
Cat. No.	:	PC-20309
CAS No.	:	1311143-71-1
Molecular Formula	:	$C_{18}H_{16}N_4O_2$
Molecular Weight	:	320.35
Target	:	Hec1/Nek2
Solubility	:	10 mM in DMSO



Biological Activity

JH295 (JH-295) is a potent, selective and irreversible **Nek2** kinase inhibitor with IC50 of 770 nM, inhibits Nek2 via alkylation of residue Cys22, does not inhibit Cdk1/CycB (IC50>20 uM).
JH295 selectively and irreversibly inhibits cellular Nek2 without affecting the mitotic kinases, Cdk1, Aurora B, or Plk1, does not perturb bipolar spindle assembly or the spindle assembly checkpoint.
JH295 inhibits cellular Nek2 in a Cys22-dependent manner, inhibits WT Nek2 in cells with IC50 of 1.6 uM in IP kinase assays, shows little effect on the C22V mutant.
JH295 does not perturb bipolar spindle assembly or chromosome congression.

References

Henise JC, et al. ***J Med Chem***. 2011 Jun 23;54(12):4133-46.

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