JH295 hydrate

Cat. No.: HY-116423A

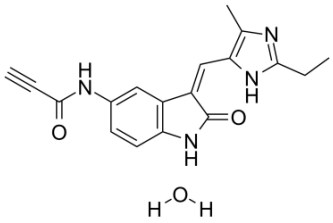
Molecular Formula: $C_{18}H_{18}N_4O_3$

Molecular Weight: 338.36

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	JH295 hydrate is a potent, irreversible and selective **NIMA-related kinase 2 (Nek2)** inhibitor with an **IC_{50}** of 770 nM. JH295 hydrate inhibits cellular **Nek2** via alkylation of Cys22. JH295 hydrate is inactive against the mitotic kinases, Cdk1, Aurora B or Plk1, and does not perturb bipolar spindle assembly or the spindle assembly checkpoint[1].
IC_{50} & Target	IC50: 770 nM (Nek2)[1]
In Vitro	JH295 (Compound 16; 0.08-20 μM; 45 minutes; RPMI7951 cells) treatment inhibits WT Nek2 in cells with an IC_{50} of ~1.3 μM, whereas it has little effect on the C22V mutant[1]. **Western Blot Analysis[1]** Cell Line: RPMI7951 cells Concentration: 0.08 μM, 0.25 μM, 0.74 μM, 2.2 μM, 6.6 μM, 20 μM Incubation Time: 45 minutes Result: Inhibited WT Nek2 in cells with an IC50 of ~1.3 μM, whereas had little effect on the C22V mutant.

REFERENCES

[1]. Jeffrey C Henise, et al. Irreversible Nek2 kinase inhibitors with cellular activity. J Med Chem. 2011 Jun 23;54(12):4133-46.

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