

Product Name: JH 295

Catalog No.: 4322

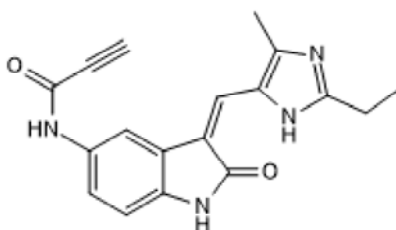
Batch No.: 2

CAS Number: 1311143-71-1

IUPAC Name: *N*-[(3*Z*)-3-[(2-Ethyl-4-methyl-1*H*-imidazol-5-yl)methylene]-2,3-dihydro-2-oxo-1*H*-indol-5-yl]-2-propynamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆N₄O₂.H₂O
Batch Molecular Weight: 338.37
Physical Appearance: Yellow/orange solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.89	5.36	16.56
Found	64.11	5.36	16.67

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

JH 295 is an irreversible Nek2 inhibitor (IC₅₀=770 nM). Inhibits Nek2 via alkylation of residue Cys22. Displays 5-fold selectivity for Nek2 over Cdk1. Exhibits no significant effect on Aurora B or Plk1 kinases, bipolar spindle assembly or spindle assembly checkpoint. Cell permeable.

Physical and Chemical Properties:

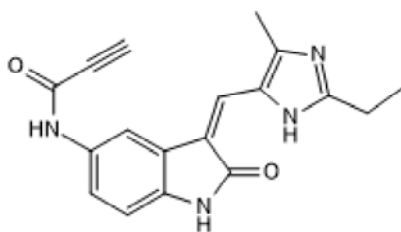
Batch Molecular Formula: C₁₈H₁₆N₄O₂.H₂O

Batch Molecular Weight: 338.37

Physical Appearance: Yellow/orange solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Henise *et al* (2011) Irreversible Nek2 kinase inhibitors with cellular activity. *J.Med.Chem.* **54** 4133. PMID: 21627121.

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