

Product Name: KIN001-266

Catalog No.: 6984

Batch No.: 1

CAS Number: 915363-56-3

IUPAC Name: 8-Chloro-4-[(3-chloro-4-fluorophenyl)amino]-6-[[[1-(1-ethyl-4-piperidiny)-1H-1,2,3-triazol-4-yl]methyl]amino]-3-quinolinecarbonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₅Cl₂FN₈· $\frac{1}{4}$ H₂O

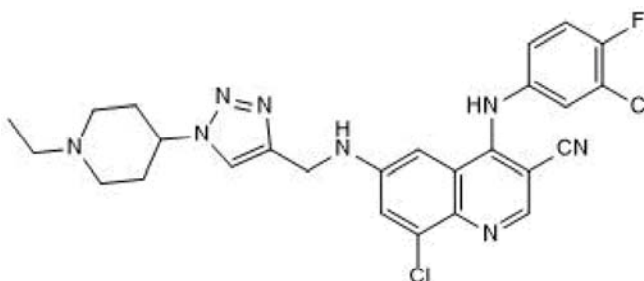
Batch Molecular Weight: 543.94

Physical Appearance: Yellow/green solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.41	4.73	20.6
Found	57.84	4.8	20.31

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

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CAS Number: 915363-56-3

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Description:

KIN001-266 is a potent and selective Tpl2 (Cot; MAP3K8) inhibitor (IC₅₀ = 1.6 nM). It exhibits 6875-fold selectivity over EGFR. In vivo, it inhibits TNF-α production in a LPS-stimulated rat inflammation model. KIN001-266 is orally bioavailable.

Physical and Chemical Properties:

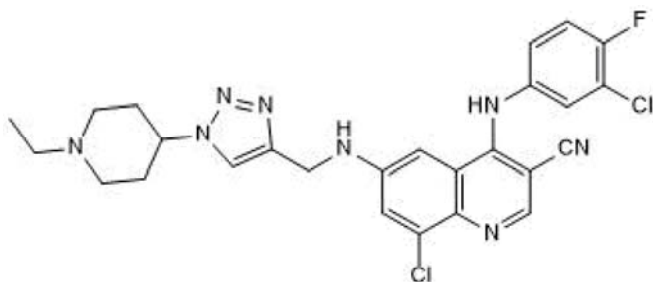
Batch Molecular Formula: C₂₆H₂₅Cl₂FN₈·¼H₂O

Batch Molecular Weight: 543.94

Physical Appearance: Yellow/green solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Glatthar et al (2016) Discovery of imidazoquinolines as a novel class of potent, selective, and *in vivo* efficacious Cancer Osaka Thyroid (COT) kinase inhibitors. *J.Med.Chem.* **59** 7544. PMID: 27502541.

Wu et al (2009) Selective inhibitors of tumor progression loci-2 (Tpl2) kinase with potent inhibition of TNF-alpha production in human whole blood. *Bioorg.Med.Chem.Lett.* **19** 3485. PMID: 19464884.

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