

Product Name: UH15-38

Catalog No.: 8104

Batch No.: 1

IUPAC Name: 3-(3-Hydroxyphenyl)-1-methyl-7-[[3-(4-methyl-1-piperazinyl)phenyl]amino]-1,6-naphthyridin-2(1*H*)-one dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇N₅O₂·2HCl·2½H₂O

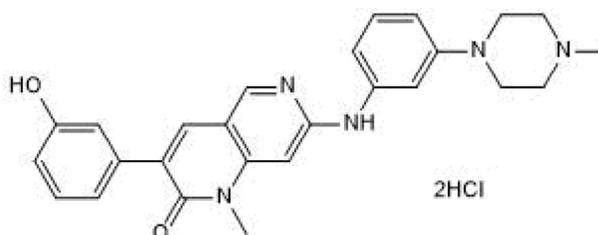
Batch Molecular Weight: 563.99

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen | Chlorine |
|-------------|--------|----------|----------|----------|
| Theoretical | 55.37 | 6.17 | 12.42 | 12.57 |
| Found | 54.48 | 6.26 | 12.12 | 12.3 |

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

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Description:

UH15-38 is a potent and selective receptor interacting protein kinase 3 (RIP3) inhibitor (IC₅₀ = 20 nM). It blocks TNF α -induced necroptosis in primary murine embryonic fibroblasts (MEFs) (IC₅₀ = 98 nM) and mouse cell lines in vitro. UH15-38, potently and selectively blocks IAV-triggered necroptosis in alveolar epithelial cells in vivo, and prevents deleterious lung inflammation without compromising antiviral adaptive immune responses or impeding viral clearance.

Physical and Chemical Properties:

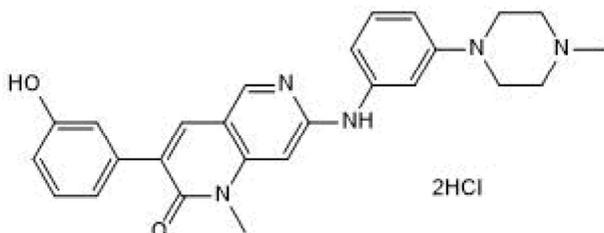
Batch Molecular Formula: C₂₆H₂₇N₅O₂·2HCl·2½H₂O

Batch Molecular Weight: 563.99

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

water 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

Sold under license from Tufts University

References:

Gautam et al (2024) Necroptosis blockade prevents lung injury in severe influenza Nature.

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