

# Certificate of Analysis

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**Product Name:** GSK'872

**Catalog No.:** 6492

**Batch No.:** 1

CAS Number: 1346546-69-7

IUPAC Name: *N*-5-Benzothiazolyl-6-[(1-methylethyl)sulfonyl]-4-quinolinamine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub>S<sub>2</sub>·H<sub>2</sub>O

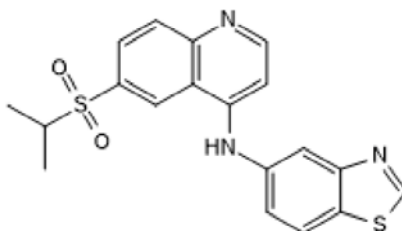
**Batch Molecular Weight:** 401.51

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	56.84	57.02	10.47
		4.68	10.19

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

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**Description:**

Potent and selective receptor activating protein kinase 3 (RIP3) inhibitor (IC<sub>50</sub> = 1.3 nM). Exhibits >1000-fold selectivity for RIP3 over a panel of 300 other kinases including RIP1. Inhibits TNF-induced cell death in 3T3-SA cells and TLR3-induced necrosis in fibroblasts in vitro. Blocks necroptosis of primary human neutrophils from whole blood. Also induces apoptosis at higher concentrations (3 - 10 μM).

**Physical and Chemical Properties:**

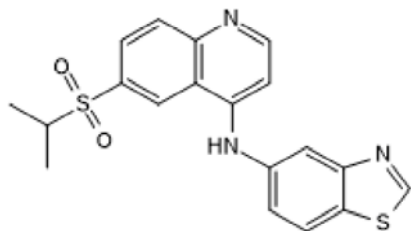
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Batch Molecular Weight: 401.51

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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:**

**Mandal *et al*** (2014) RIP3 induces apoptosis independent of pronecrotic kinase activity. *Mol.Cell* **56** 481. PMID: 25459880.

**Kaiser *et al*** (2013) Toll-like receptor 3-mediated necrosis via TRIF, RIP3, and MLKL. *J.Biol.Chem.* **288** 31268. PMID: 24019532.

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