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# **DATASHEET**

GSK'872

#### **Product overview**

Name GSK'872 Cat No HB5933 **Alternative names** GSK2399872A **Biological action** Inhibitor **Purity** >98%

Description Potent, selective RIP3 inhibitor. Necroptosis inhibitor.

## **Biological Data**

**Biological description** 

Potent and selective RIP3 inhibitor. Binds to the RIP3 kinase domain ( $IC_{50} = 1.3 \text{ nM}$ ) and inhibits kinase activity with an IC50 of 1.3 nM. Demonstrates >1000-fold selectivity for RIP3 compared with >300 different kinases. Inhibits necroptosis, TLR3-, TNF-α- and virus-induced necrosis. Also induces caspase8-mediated apoptosis in a concentration-dependent manner (at higher concentration such as  $3-10 \mu M$ ).

### **Solubility & Handling**

Solubility overview Storage instructions Storage of solutions Soluble in DMSO (100 mM), and in ethanol (100 mM)

-20°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** 

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

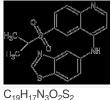
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

#### **Chemical Data**

**Chemical name Molecular Weight** Chemical structure N-5-Benzothiazolyl-6-[(1-methylethyl)sulfonyl]-4-quinolinamine

383.5



Molecular Formula **CAS Number PubChem identifier SMILES** 

InChi

InChiKey

1346546-69-7 54674134

CC(C)S(=O)(=O)C1=CC2=C(C=CN=C2C=C1)NC3=CC4=C(C=C3)SC=N4

InChl=1S/C19H17N3O2S2/c1-12(2)26(23,24)14-4-5-16-15(10-14)17(7-8-20-16)22-13-3-6-19-18(9-14)12(10-14

3)21-11-25-19/h3-12H,1-2H3,(H,20,22)

ZCDBTQNFAPKACC-UHFFFAOYSA-N

MFCD30481302 **MDL** number Yellow solid **Appearance** 

### References

#### Toll-like receptor 3-mediated necrosis via TRIF, RIP3, and MLKL.

Kaiser WJ et al (2013) The Journal of biological chemistry 288

PubMedID 24019532

RIP3 induces apoptosis independent of pronecrotic kinase activity.

Mandal P et al (2014) Molecular cell 56

**PubMedID** 25459880

Mixed lineage kinase domain-like protein mediates necrosis signaling downstream of RIP3 kinase.

Sun L et al (2012) Cell 148

PubMedID 22265413