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## DATASHEET

GSK'872

### Product overview

<b>Name</b>	GSK'872
<b>Cat No</b>	HB5933
<b>Alternative names</b>	GSK2399872A
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective RIP3 inhibitor. Necroptosis inhibitor.

### Biological Data

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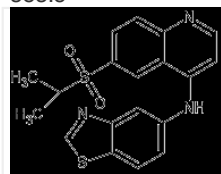
### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM), and in ethanol (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	N-5-Benzothiazolyl-6-[(1-methylethyl)sulfonyl]-4-quinolinamine
<b>Molecular Weight</b>	383.5

**Chemical structure**



<b>Molecular Formula</b>	$C_{19}H_{17}N_3O_2S_2$
<b>CAS Number</b>	1346546-69-7
<b>PubChem identifier</b>	54674134
<b>SMILES</b>	<chem>CC(C)S(=O)(=O)C1=CC2=C(C=CN=C2C=C1)NC3=CC4=C(C=C3)SC=N4</chem>
<b>InChi</b>	InChI=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(9-13)21-11-25-19/h3-12H,1-2H3,(H,20,22)
<b>InChiKey</b>	ZCDBTQNFAPKACC-UHFFFAOYSA-N
<b>MDL number</b>	MFCD30481302
<b>Appearance</b>	Yellow solid

### 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](#)

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