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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.

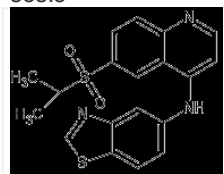
Biological Data

Biological description	Potent and selective RIP3 inhibitor. Binds to the RIP3 kinase domain ($IC_{50} = 1.3$ 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- α - and virus-induced necrosis. Also induces caspase8-mediated apoptosis in a concentration-dependent manner (at higher concentration such as 3-10 μ M).
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Solubility & Handling

Solubility overview	Soluble in DMSO (100 mM), and in ethanol (100 mM)
Storage instructions	-20 °C
Storage of solutions	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	N-5-Benzothiazolyl-6-[(1-methylethyl)sulfonyl]-4-quinolinamine
Molecular Weight	383.5
Chemical structure	
Molecular Formula	$C_{19}H_{17}N_3O_2S_2$
CAS Number	1346546-69-7
PubChem identifier	54674134
SMILES	<chem>CC(C)S(=O)(=O)C1=CC2=C(C=CN=C2C=C1)NC3=CC4=C(C=C3)SC=N4</chem>
InChi	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)
InChiKey	ZCDBTQNFAPKACC-UHFFFAOYSA-N
MDL number	MFCD30481302
Appearance	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](#)
