

Store at
-20C
#90126**GSK872**

5 mg



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Background

GSK872 is a potent, selective inhibitor of RIP3 with an IC₅₀ value of 1.8 nM and inhibits kinase activity with an IC₅₀ value of 1.3 nM (1,2). RIP3 is required for necroptosis (3). When this compound is tested at 1 μM, it shows >1,000-fold specificity for RIP3 compared with over 300 kinases tested (1). GSK872 inhibits both virus-, TNF- and TLR-3-induced necrosis in fibroblasts (1).

Molecular Formula

C₁₉H₁₇N₃O₂S₂

Molecular Weight

383.5 g/mol

Purity

>98%

CAS

1346546-69-7

Solubility

Soluble in DMSO at 25 mg/mL.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

GSK872 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.30 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Kaiser, W.J. et al. (2013) *J Biol Chem* 288, 31268-79.
2. Mandal, P. et al. (2014) *Mol Cell* 56, 481-95.
3. Sun, L. et al. (2012) *Cell* 148, 213-27.

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