

Product Datasheet

GSK481

Catalog No. **BP-02346** · CAS **1622849-58-4** · Form **free base** · Physical state **solid** · Color **Light brown to brown** · Version **1.0**
· Revision **2026-09-10**

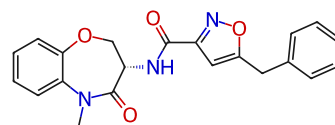
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Target RIP kinase	Research area Inflammation/Immunology
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Molecular formula **C₂₁H₁₉N₃O₄**

Molecular weight **377.3933**

STRUCTURE



DESCRIPTION

GSK481 is a potent inhibitor of Receptor-interacting serine/threonine-protein kinase 1 (RIPK1 or RIP1; IC₅₀ value 2.8 nM for inhibition of S166 phosphorylation of hWT RIP1) exhibiting a remarkable specificity over >450 other kinases. GSK'481 protects against TNF-induced inflammation and lethal shock.

BIOLOGICAL ACTIVITY

GSK481 is a highly effective, selective and specific RIPK1 inhibitor with an IC₅₀ value of 1.3 nM, which can inhibit the phosphorylation of Ser166 in wild-type human RIPK1 (IC₅₀ value of 2.8 nM). The IC₅₀ value of GSK481 against U937 cells was 10 nM.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Harris PA et al. DNA-Encoded Library Screening Identifies Benzo[b][1,4]oxazepin-4-ones as Highly Potent and Monoselective Receptor Interacting Protein 1 Kinase Inhibitors. J Med Chem, 2016 Mar 10, 59(5):2163-78.
- [2]. Lee HL, et al. Simultaneous flow cytometric immunophenotyping of necroptosis, apoptosis and RIP1-dependent apoptosis. Methods. 2018 Feb 1;134-135:56-66.

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Lot CoA and SDS are separate documents.