Product Datasheet

GSK2982772

Catalog No. **BP-02513** · CAS **1622848-92-3** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** · Revision **2026-09-10**

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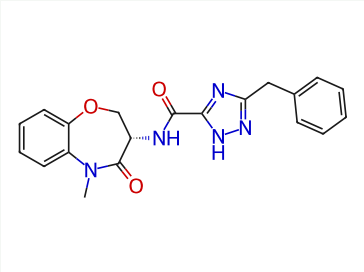
Target	Research area
RIP kinase	**Infection; Neurological Disease; Inflammation/Immunology**

Molecular formula	$C_{20}H_{19}N_5O_3$
Molecular weight	**377.3966**

STRUCTURE



DESCRIPTION

GSK2982772 is a potent, orally active and ATP competitive RIP1 kinase inhibitor with IC50 values of 16 nM and 20 nM for human and monkey RIP1, respectively .

BIOLOGICAL ACTIVITY

GSK2982772 is a potent inhibitor of selective receptor interaction protein kinase 1 (RIPK1), with IC50 values of 16 nM and 20 nM for human and monkey RIP1, respectively. GSK2982772 binds effectively to RIP1, has sensitive kinase specificity, and has excellent activity in blocking many TNF-dependent cellular responses. RIP1 is an important upstream kinase that has been shown to regulate inflammation through specific functions of scaffold and kinase. In vivo, GSK2982772 showed good free fractions in the blood of rats (4.2%), dogs (11%), cynomolgus monkeys (11%), and humans (7.4%).

SOLUBILITY

Soluble in DMSO; H2O

REFERENCES

[1].Harris PA, et al. Discovery of a First-in-Class Receptor Interacting Protein 1 (RIP1) Kinase Specific Clinical Candidate (GSK2982772) for the Treatment of Inflammatory Diseases. J Med Chem. 2017 Feb 23;60(4):1247-1261.