

GSK2982772

## Chemical Properties

CAS No. : 1622848-92-3

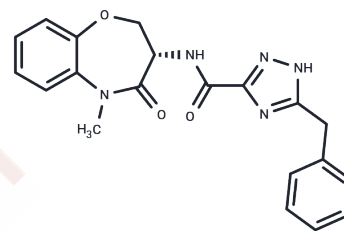
Formula: C<sub>20</sub>H<sub>19</sub>N<sub>5</sub>O<sub>3</sub>

Molecular Weight: 377.4

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GSK2982772 is an inhibitor of receptor interacting serine/threonine kinase 1 (RIPK1) with IC <sub>50</sub> values of 16 nM and 20 nM for human and monkey RIP1, respectively.
Targets(IC <sub>50</sub> )	RIP kinase
In vitro	GSK2982772 potently binds to RIP1 with exquisite kinase specificity and has excellent activity in blocking many TNF-dependent cellular responses. Highlighting its potential as a novel anti-inflammatory agent, the inhibitor was also able to reduce spontaneous production of cytokines from human ulcerative colitis explants.

## Solubility Information

Solubility	DMSO: 250 mg/mL (662.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (26.5 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (26.5 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.6497 mL	13.2485 mL	26.4971 mL
5 mM	0.5299 mL	2.6497 mL	5.2994 mL
10 mM	0.265 mL	1.3249 mL	2.6497 mL
50 mM	0.053 mL	0.265 mL	0.5299 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Discovery of a First-in-Class Receptor Interacting Protein 1 (RIP1) Kinase Specific Clinical Candidate (GSK2982772) for the Treatment of Inflammatory Diseases[J]. Journal of Medicinal Chemistry, 2017, 60(4):1247-1261.

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