

GSK840

Chemical Properties

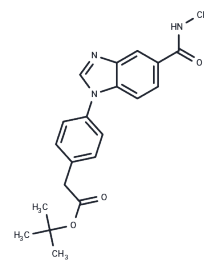
CAS No. : 2361146-30-5

Formula: C₂₁H₂₃N₃O₃

Molecular Weight: 365.43

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	GSK840 (GSK'840) is a receptor-interacting protein kinase 3 (RIP3 or RIPK3) inhibitor that binds to the RIP3 kinase domain (IC ₅₀ : 0.9 nM) and inhibits kinase activity (IC ₅₀ : 0.3 nM).
Targets(IC ₅₀)	RIP kinase
In vitro	In human HT-29 cells, GSK840 (0.01-3 μM) blocked TNF-induced necroptosis in a concentration-dependent manner. GSK840 binded the kinase domain and inhibited kinase activity with high specificity, targeting a broader range of pro-necrotic stimuli[1].

Solubility Information

Solubility	DMSO: 245 mg/mL (670.44 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 (27.37 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (27.37 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

	1mg	5mg	10mg
1 mM	2.7365 mL	13.6825 mL	27.365 mL
5 mM	0.5473 mL	2.7365 mL	5.473 mL
10 mM	0.2737 mL	1.3683 mL	2.7365 mL
50 mM	0.0547 mL	0.2737 mL	0.5473 mL

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

Mandal P, et al. RIP3 induces apoptosis independent of pronecrotic kinase activity. *Mol Cell*. 2014 Nov 20;56(4): 481-95.

Tu X, Zou Z, Li J, et al. Artificial intelligence-enabled discovery of a RIPK3 inhibitor with neuroprotective effects in an acute glaucoma mouse model. *Chinese Medical Journal*. 2024: 10.1097.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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