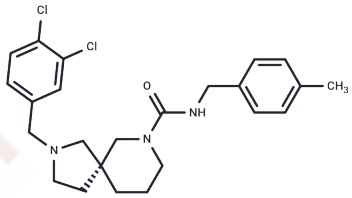
Data Sheet (Cat.No.T11488)

TargetMol

GSK2850163

Chemical Properties



CAS No. : 2121989-91-9

Formula: C24H29Cl2N3O

Molecular Weight: 446.41

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GSK2850163 is a novel inhibitor of inositol-requiring enzyme-1 alpha (IRE1α), effectively inhibiting both its RNase activity and IRE1α kinase activity (IC50s: 200 and 20 nM).
Targets(IC50)	IRE1
In vitro	The increased autophosphorylation of IRE1α could be reduced in a dose-dependent manner by GSK2850163. Increasing concentrations of GSK2850163 are capable of reducing the increased XBP 1 transcriptional activity. Two additional kinases are weakly inhibited by GSK2850163: Ron (IC50=4.4 μM) and FGFR1 V561M (IC50=17 μM).

Solubility Information

Solubility	Ethanol: 50 mg/mL (112 mM),Sonication is recommended. DMSO: 150 mg/mL (336.01 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: 4 mg/mL (8.96 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (22.4 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2401 mL	11.2005 mL	22.4009 mL
5 mM	0.448 mL	2.2401 mL	4.4802 mL
10 mM	0.224 mL	1.120 mL	2.2401 mL
50 mM	0.0448 mL	0.224 mL	0.448 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

Nestor O. Concha, et al. Long-Range Inhibitor-Induced Conformational Regulation of Human IRE1α Endoribonuclease Activity. Molecular Pharmacology December 2015, 88 (6) 1011-1023.