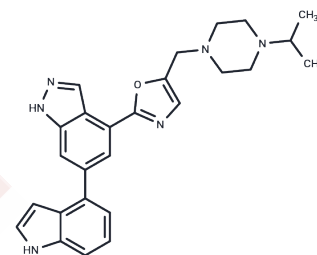


Nemiralisib

Chemical Properties

CAS No. :	1254036-71-9
Formula:	C ₂₆ H ₂₈ N ₆ O
Molecular Weight:	440.54
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Nemiralisib(GSK-2269557 free base) is an orally available, potent and specific PI3K δ inhibitor with a pKi of 9.9.Nemiralisib is used for the treatment of respiratory diseases including chronic obstructive pulmonary disease.
Targets(IC50)	PI3K
In vitro	Nemiralisib inhibits IFN γ in the peripheral blood mononuclear (PBMC) (pIC50: 9.7). Nemiralisib is highly selective for PI3K δ . It has >1000-fold selectivity over the closely related isoforms PI3K α (pIC50: 5.3), PI3K β (pIC50: 5.8), and PI3K γ (pIC50: 5.2).[1]
In vivo	Nemiralisib is active in a disease-relevant brown Norway rat acute OVA model of Type 2 helper T-cells (Th2)-driven lung inflammation. Pharmacokinetic data from Sprague Dawley male rats are obtained to assess the suitability of the series for inhaled delivery clearance data in rat microsomes and subsequently in vivo. Compounds (e.g., Nemiralisib) are administered by the oral or intravenous routes, at a dose level of 3 and 1mg/kg respectively (n=2 rats/route).[1]

Solubility Information

Solubility	DMSO: 29 mg/mL (65.83 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: 2 mg/mL (4.54 mM),Sonication is recommended. <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	2.2699 mL	11.3497 mL	22.6994 mL
5 mM	0.454 mL	2.2699 mL	4.5399 mL
10 mM	0.227 mL	1.135 mL	2.2699 mL
50 mM	0.0454 mL	0.227 mL	0.454 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

Down K et al. Optimization of Novel Indazoles as Highly Potent and Selective Inhibitors of Phosphoinositide 3-Kinase δ for the Treatment of Respiratory Disease. *J Med Chem*. 2015 Sep 24;58(18):7381-99.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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