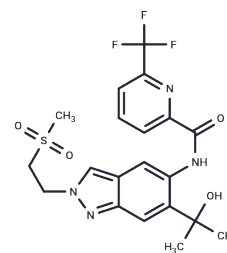


Zabedoseritib

Chemical Properties

CAS No. :	1931994-81-8
Formula:	C ₂₀ H ₂₁ F ₃ N ₄ O ₄ S
Molecular Weight:	470.47
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	Zabedoseritib (BAY 1834845) is an inhibitor of IRAK4 with immunomodulatory potential. Zabedoseritib protects against acute respiratory distress syndrome, a new study suggests.
Targets(IC50)	IRAK
In vivo	In an inhaled lipopolysaccharide (LPS)-induced ARDS mouse model, BAY-1834845 downregulated genes more efficiently than dexamethasone, especially TNF, IL-17, interferon, and Toll-like receptor signaling[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (531.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (21.26 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (21.26 mM), Solution. <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	2.1255 mL	10.6277 mL	21.2553 mL
5 mM	0.4251 mL	2.1255 mL	4.2511 mL
10 mM	0.2126 mL	1.0628 mL	2.1255 mL
50 mM	0.0425 mL	0.2126 mL	0.4251 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

Li Q, et al. Oral IRAK4 inhibitor BAY-1834845 prevents acute respiratory distress syndrome. *Biomed Pharmacother.* 2022 Sep;153:113459.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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