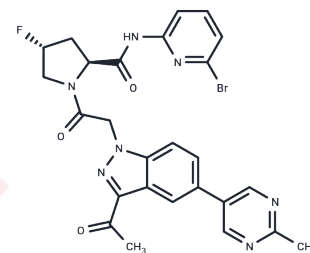


Danicopan

Chemical Properties

CAS No. :	1903768-17-1
Formula:	C ₂₆ H ₂₃ BrFN ₇ O ₃
Molecular Weight:	580.41
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	Danicopan (ACH-4471) (ACH-4471) is a selective, orally active small molecule factor D inhibitor with high binding affinity to human factor D, with a K _d value of 0.54 nM. Danicopan (ACH-4471) inhibits the activity of the complement replacement pathway (APC) and may block the complement replacement pathway in paroxysmal nocturnal hemoglobinuria (PNH) and atypical hemolytic uremic syndrome (aHUS).
Targets(IC ₅₀)	Complement System
In vitro	Danicopan (ACH-4471) inhibits the proteolytic activity of purified factor D and its natural substrate factor B binding to C3b, thereby blocking Bb fragment production in a dose-dependent manner, with an IC ₅₀ of 0.015 μM. Danicopan (ACH-4471) effectively inhibits hemolysis with IC ₅₀ values between 0.0040 μM and 0.027 μM (IC ₉₀ values between 0.015 μM and 0.11 μM).

Solubility Information

Solubility	DMSO: 260 mg/mL (447.96 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: 5 mg/mL (8.61 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	1.7229 mL	8.6146 mL	17.2292 mL
5 mM	0.3446 mL	1.7229 mL	3.4458 mL
10 mM	0.1723 mL	0.8615 mL	1.7229 mL
50 mM	0.0345 mL	0.1723 mL	0.3446 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

Yuan X, et al. Small-molecule factor D inhibitors selectively block the alternative pathway of complement in paroxysmal nocturnal hemoglobinuria and atypical hemolytic uremic syndrome. *Haematologica*. 2017 Mar;102(3):466-475.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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