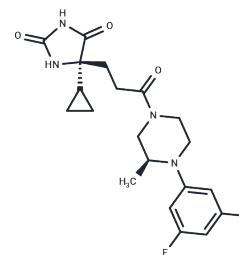


Aldumastat

Chemical Properties

CAS No. :	1957278-93-1
Formula:	C ₂₀ H ₂₄ F ₂ N ₄ O ₃
Molecular Weight:	406.43
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	Aldumastat (GLPG1972) is a highly potent, specific and orally active inhibitor of ADAMTS-5. Aldumastat is used for the study of osteoarthritis of the knee.
Targets(IC50)	Protease
In vivo	Aldumastat (GLPG1972; 1mg/kg i.v./5mg/kg p.o.) displayed favorable pharmacokinetic profiles in mice, rats, and dogs, with oral bioavailability of 25%, 58%, and 97%, respectively.[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (196.84 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 (12.3 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	2.4604 mL	12.3022 mL	24.6045 mL
5 mM	0.4921 mL	2.4604 mL	4.9209 mL
10 mM	0.246 mL	1.2302 mL	2.4604 mL
50 mM	0.0492 mL	0.246 mL	0.4921 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

Franck Brebion, et al. Discovery of GLPG1972/S201086, a Potent, Selective, and Orally Bioavailable ADAMTS-5 Inhibitor for the Treatment of Osteoarthritis. *J Med Chem.* 2021 Mar 25;64(6):2937-2952.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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