

ADAMTS-5-IN-3

Chemical Properties

CAS No. : 2688733-96-0

Formula: C₂₀H₂₃Cl₂N₃O₃

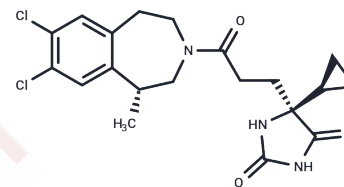
Molecular Weight: 424.32

Keep away from direct sunlight, Store at low temperature

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	ADAMTS-5-IN-3 is a highly efficient inhibitor of ADAMTS-5 and ADAMTS-4, useful for studying diseases mediated by these enzymes.
Targets(IC50)	Protease
In vitro	ADAMTS-5-IN-3 (compound 37-2) exhibited significant inhibition of ADAMTS-5 and ADAMTS-4 with IC50 values of 8 nM and 12 nM, respectively.[1]

Solubility Information

Solubility	DMSO: 160 mg/mL (377.07 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 (11.78 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	2.3567 mL	11.7836 mL	23.5671 mL
5 mM	0.4713 mL	2.3567 mL	4.7134 mL
10 mM	0.2357 mL	1.1784 mL	2.3567 mL
50 mM	0.0471 mL	0.2357 mL	0.4713 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

Dong Liu, et al. Adamts inhibitors, preparation methods and medicinal uses thereof. WO2021158626A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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