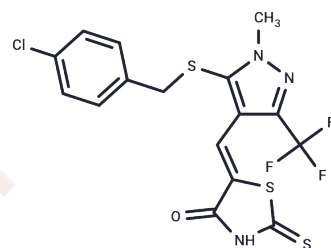


ADAMTS-5 Inhibitor

Chemical Properties

CAS No. :	929634-33-3
Formula:	C ₁₆ H ₁₁ ClF ₃ N ₃ O ₃ S ₃
Molecular Weight:	449.92
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 Inhibitor is an inhibitor of ADAMTS-5 with an IC ₅₀ of 1.1 μM and can be used in studies about cartilage destruction in arthritis.
Targets(IC ₅₀)	Protease

Solubility Information

Solubility	DMSO: 74.7 mg/mL (166.03 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: 3.3 mg/mL (7.33 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	2.2226 mL	11.1131 mL	22.2262 mL
5 mM	0.4445 mL	2.2226 mL	4.4452 mL
10 mM	0.2223 mL	1.1113 mL	2.2226 mL
50 mM	0.0445 mL	0.2223 mL	0.4445 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

Gilbert AM, et al. 5-((1H-pyrazol-4-yl)methylene)-2-thioxothiazolidin-4-one inhibitors of ADAMTS-5. Bioorg Med Chem Lett. 2007 Mar 1;17(5):1189-92.

Wylie JD, et al. Adamts5 (aggrecanase-2) is widely expressed in the mouse musculoskeletal system and is induced in specific regions of knee joint explants by inflammatory cytokines. J Orthop Res. 2012 Feb;30(2):226-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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