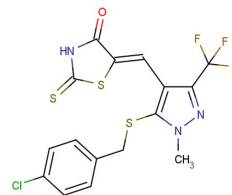


ADAMTS-5 Inhibitor

Chemical Properties

CAS No.:	929634-33-3
Formula:	C ₁₆ H ₁₁ ClF ₃ N ₃ OS ₃
Molecular Weight:	449.92
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ADAMTS-5 Inhibitor is a potent ADAMTS-5 (aggrecanase-2) inhibitor, with an IC ₅₀ of 1.1 μM. ADAMTS-5 Inhibitor shows >40-fold functional selectivity over ADAMTS-4 (aggrecanase-1)[1].
Targets(IC ₅₀)	Others: None
In vitro	ADAMTS-5 is an extracellular matrix-degrading protease. Which is implicated in cartilage destruction in arthritis[2].

Solubility Information

Solubility	DMSO: 83.33 mg/mL (185.21 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.223 mL	11.113 mL	22.226 mL
5 mM	0.445 mL	2.223 mL	4.445 mL
10 mM	0.222 mL	1.111 mL	2.223 mL
50 mM	0.044 mL	0.222 mL	0.445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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