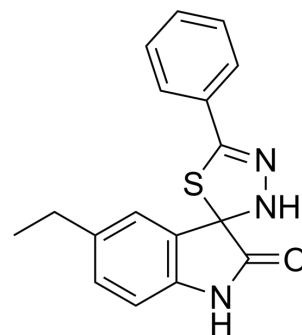


ADAMTS-5-IN-2

Cat. No.:	HY-135710		
CAS No.:	294648-66-1		
Molecular Formula:	C ₁₇ H ₁₅ N ₃ OS		
Molecular Weight:	309.39		
Target:	ADAMTS		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (323.22 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration	1 mg	5 mg
1 mM			3.2322 mL	16.1608 mL	32.3217 mL
5 mM			0.6464 mL	3.2322 mL	6.4643 mL
10 mM			0.3232 mL	1.6161 mL	3.2322 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (8.08 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (8.08 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (8.08 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ADAMTS-5-IN-2 (compound 25) is a potent ADAMTS-5 inhibitor with an IC₅₀ value of 0.71 μM. ADAMTS-5-IN-2 has the potential for the research of modifying osteoarthritis^{[1][2]}.

REFERENCES

- [1]. Bompiani KM, et al. High-Throughput Screening Uncovers Novel Botulinum Neurotoxin Inhibitor Chemotypes. ACS Comb Sci. 2016 Aug 8;18(8):461-74.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA