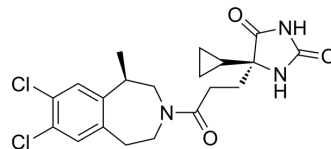


## ADAMTS-5-IN-3

<b>Cat. No.:</b>	HY-145061
<b>CAS No.:</b>	2688733-96-0
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>23</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	424.32
<b>Target:</b>	ADAMTS
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 200 mg/mL (471.34 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.3567 mL</td> <td>11.7836 mL</td> <td>23.5671 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4713 mL</td> <td>2.3567 mL</td> <td>4.7134 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2357 mL</td> <td>1.1784 mL</td> <td>2.3567 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	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
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	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																		
	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 5 mg/mL (11.78 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (11.78 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 5 mg/mL (11.78 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	ADAMTS-5-IN-3 (Example 37-2) is a potent inhibitor of ADAMTS-5 and ADAMTS-4 with IC <sub>50</sub> s of 8 and 12 nM, respectively. ADAMTS-5-IN-3 can be used for the research of diseases involving degradation of cartilage or disruption of cartilage homeostasis, in particular osteoarthritis and/or rheumatoid arthritis <sup>[1]</sup> .
--------------------	---

### REFERENCES

**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](mailto:tech@MedChemExpress.com)

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