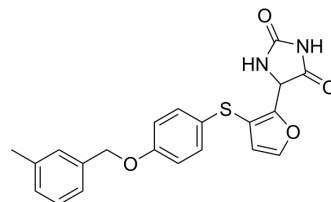


## Aderamastat

Cat. No.:	HY-156963		
CAS No.:	877176-23-3		
Molecular Formula:	C <sub>21</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S		
Molecular Weight:	394.44		
Target:	MMP		
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 (253.52 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	2.5352 mL	12.6762 mL
5 mM			0.5070 mL	2.5352 mL	5.0705 mL
10 mM			0.2535 mL	1.2676 mL	2.5352 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 (6.34 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 (6.34 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 2.5 mg/mL (6.34 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Aderamastat (FP-025) is an orally active matrix metalloproteinase 12 (MMP-12) inhibitor. Aderamastat can be used for the research of asthma, chronic obstructive pulmonary disease (COPD), and pulmonary fibrosis<sup>[1]</sup>.

### REFERENCES

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

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