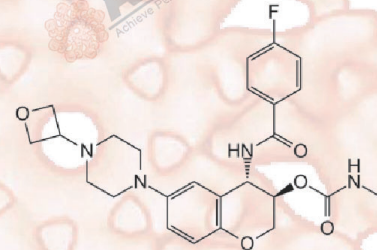
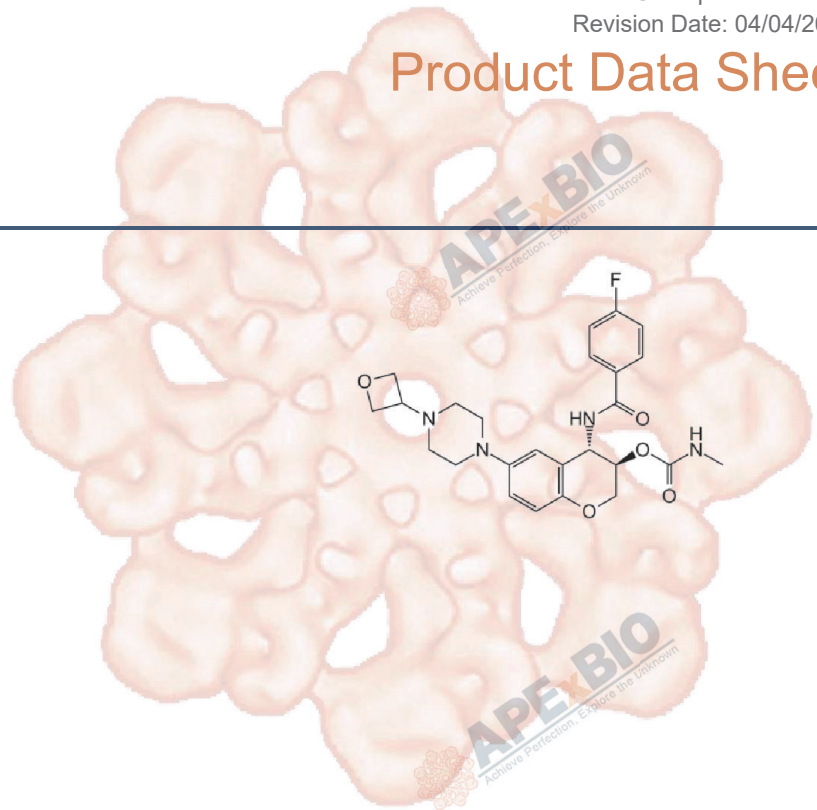


# Product Data Sheet

## Cathepsin S inhibitor

<b>Cat. No.:</b>	A3284
<b>CAS No.:</b>	1373215-15-6
<b>Formula:</b>	C25H29FN4O5
<b>M.Wt:</b>	484.52
<b>Synonyms:</b>	
<b>Target:</b>	Proteases
<b>Pathway:</b>	Cathepsin
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥24.25 mg/mL in DMSO; insoluble in H<sub>2</sub>O; insoluble in EtOH

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		<b>1 mM</b>	2.0639 mL	10.3195 mL	20.6390 mL
		<b>5 mM</b>	0.4128 mL	2.0639 mL	4.1278 mL
		<b>10 mM</b>	0.2064 mL	1.0319 mL	2.0639 mL

Please refer to the solubility information to select the appropriate solvent

### Biological Activity

Shortsummary	Blocks MHCII antigen presentation	
IC <sub>50</sub> & Target		
In Vitro	<b>Cell Viability Assay</b>	
	Preparation method:	
In Vivo	<b>Animal experiment</b>	
	Animal models:	Mouse model of abdominal aortic aneurysm (AAA)
	Dosage form:	1, 3, 10, and 30 mg/kg, oral, BID dosing
	Applications:	The efficacies of Cathepsin S inhibitor was studied in a mouse model of

abdominal aortic aneurysm (AAA). Cathepsin S inhibitor exhibited a dose-responsive aortic diameter reduction at 1, 3, 10, and 30 mg/kg. At the lowest dose of 1 mg/kg of Cathepsin S inhibitor, the aortic diameter is reduced by 58%, then 83% at 3 mg/kg, and 87% at 10 mg/kg.

Other notes:

Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

1. Steimle A, Gronbach K, et al. "Symbiotic gut commensal bacteria act as host cathepsin S activity regulators." J Autoimmun. 2016 Jul 30.PMID:27484364

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1] Jadhav PK, et al. Discovery of Cathepsin S Inhibitor LY3000328 for the Treatment of Abdominal Aortic Aneurysm. ACS Med Chem Lett. 2014 Aug 27;5(10):1138-42.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APEX BIO Technology**

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