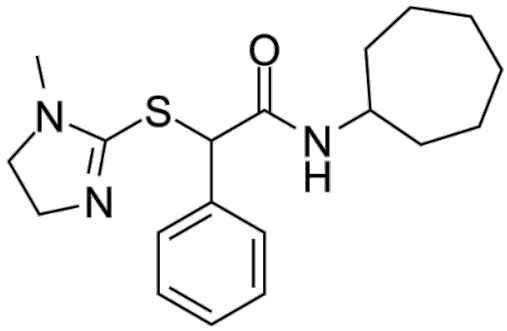
Product Data Sheet

Product Name: Apostatin-1
Cat. No.: GC65004

Chemical Properties

Cas. No.	2559703-06-7		
Formula	$C_{19}H_{27}N_3OS$	M.Wt	345.5
Solubility	DMSO : 83.33 mg/mL (241.19 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 80°C)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Apostatin-1 (Apt-1) is a potent TRADD inhibitor. Apostatin-1 can bind with TRADD-N (KD=2.17 μM), disrupting its binding to both TRADD-C and TRAF2. Apostatin-1 modulates the ubiquitination of RIPK1 and beclin 1. Apostatin-1 blocks apoptosis and restores cellular homeostasis by activating autophagy in cells with accumulated mutant tau, α-synuclein, or huntingtin[1].

Apostatin-1 inhibits Velcade (Bortezomib, 0)-induced apoptosis and RIPK1-dependent apoptosis

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(RDA) and necroptosis, with an IC50 of 0.97 μM[1].Apostatin-1 (10 μM, 6 h) effectively induces autophagy and the degradation of long-lived proteins[1].

Apostatin-1 (20 mg/kg, IP, once) inhibits inflammatory responses, and increases survival of systemic inflammation mouse model[1].

[1]. Xu D, et al. Modulating TRADD to restore cellular homeostasis and inhibit apoptosis. Nature. 2020 Nov;587(7832):133-138.

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