

Product Data Sheet

Product Name: Apostatin-1

Cat. No.: GC65004

Chemical Properties

Cas. No. 2559703-06-7

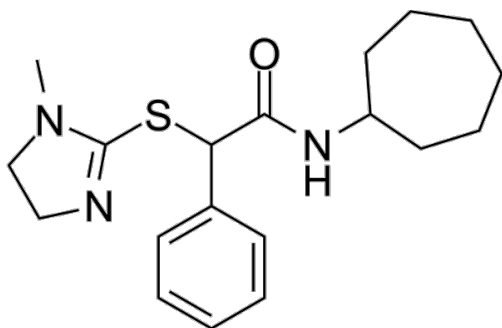
Formula $C_{19}H_{27}N_3OS$ M.Wt 345.5

Solubility DMSO : 83.33 mg/mL (241.19 mM); ultrasonic and warming and adjust pH to 4 with HCl and heat to 80°C

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 ($K_D=2.17 \mu M$), 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

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

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(RDA) and necroptosis, with an IC₅₀ of 0.97 μ M[1].Apostatin-1 (10 μ M, 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.

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