**Proteins** 

# Caerulomycin A

Cat. No.: HY-114495 CAS No.: 21802-37-9 Molecular Formula:  $C_{12}H_{11}N_3O_2$ Molecular Weight: 229.24

Target: Fungal; Antibiotic Pathway: Anti-infection

Storage: Powder -20°C

3 years 2 years

In solvent -80°C 2 years

> -20°C 1 year

**Product** Data Sheet

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 150 mg/mL (654.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.3622 mL	21.8112 mL	43.6224 mL
	5 mM	0.8724 mL	4.3622 mL	8.7245 mL
	10 mM	0.4362 mL	2.1811 mL	4.3622 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	Caerulomycin A (Cerulomycin; Caerulomycin), an antifungal compound, induces generation of T cells, enhances TGF- $\beta$ -Smad3 protein signaling via suppressing interferon- $\gamma$ -induced STAT1 signaling. Antifungal and antibiotic activity, and used in autoimmune diseases <sup>[1]</sup> .
IC <sub>50</sub> & Target	Antifungal $^{[1]}$ TGF- $\beta$ -Smad3 $^{[1]}$

### **REFERENCES**

1]. Gurram RK, et al. Caerulom	ycin A enhances transform	ing growth factor-β (TGF-β)-Sma	d3 protein signaling by suppressing inte	rferon-γ (IFN-γ)-signal transducer and
			Biol Chem. 2014 Jun 20;289(25):17515-2	
	Caution: Product has	not been fully validated for m	nedical applications. For research u	se only.
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