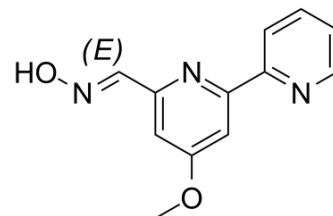


Caerulomycin A

Cat. No.:	HY-114495		
CAS No.:	21802-37-9		
Molecular Formula:	C ₁₂ H ₁₁ N ₃ O ₂		
Molecular Weight:	229.23		
Target:	Fungal; Antibiotic		
Pathway:	Anti-infection		
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 : 150 mg/mL (654.36 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.3624 mL	21.8122 mL	43.6243 mL
				5 mM	0.8725 mL	4.3624 mL	8.7249 mL
10 mM				0.4362 mL	2.1812 mL	4.3624 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-β-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-β-Smad3 protein signaling via suppressing interferon-γ-induced STAT1 signaling. Antifungal and antibiotic activity, and used in autoimmune diseases ^[1] .
IC ₅₀ & Target	Antifungal ^[1] TGF-β-Smad3 ^[1]

REFERENCES

[1]. Gurram RK, et al. Caerulomycin A enhances transforming growth factor- β (TGF- β)-Smad3 protein signaling by suppressing interferon- γ (IFN- γ)-signal transducer and activator of transcription 1 (STAT1) protein signaling to expand regulatory T cells (Tregs). J Biol Chem. 2014 Jun 20;289(25):17515-28.

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

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