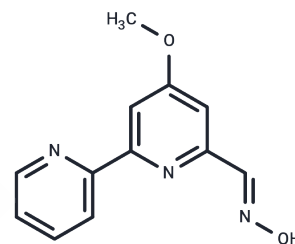


## Caerulomycin A

## Chemical Properties

CAS No. :	21802-37-9
Formula:	C <sub>12</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	229.23
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Caerulomycin A (Caerulomycin) (Cerulomycin; Caerulomycin) is an antifungal compound. Which 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.
Targets(IC50)	Antibiotic,Antifungal

## Solubility Information

Solubility	DMSO: 150 mg/mL (654.36 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (17.45 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0872 mL	0.4362 mL	0.8725 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gurram RK, et al. Caerulomycin A enhances transforming growth factor- $\beta$  (TGF- $\beta$ )-Smad3 protein signaling by suppressing interferon- $\gamma$  (IFN- $\gamma$ )-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.

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