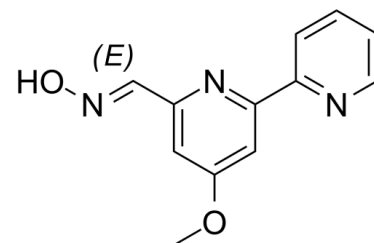


Data Sheet

Product Name:	Caerulomycin A
Cat. No.:	CS-0086493
CAS No.:	21802-37-9
Molecular Formula:	C ₁₂ H ₁₁ N ₃ O ₂
Molecular Weight:	229.23
Target:	Fungal
Pathway:	Anti-infection
Solubility:	DMSO : 150 mg/mL (654.36 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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].
IC₅₀ & 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.

CAIndexNames:

[2,2'-Bipyridine]-6-carboxaldehyde, 4-methoxy-, oxime, (E)-

SMILES:

COC1=CC(C2=NC=CC=C2)=NC(/C=N/O)=C1.[(E)]

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

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