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DATASHEET

Citrinin

Product overview

Name	Citrinin
Cat No	HB3839
Purity	>97%
Description	Mitochondrial permeability transition pore (MPTP) activator

Biological Data

Biological description	Antibiotic. Antiprotozoal. Antimicrobial. Cytotoxic and genotoxic in various mammalian cells. Mitochondrial permeability transition pore (MPTP) activator. Apoptosis inducer. ERK and JNK signaling pathways activator. Nephrotoxic mycotoxin. Suppresses NO and iNOS expression via inhibition of the JAK/STAT-1alpha and NF-kappaB signaling pathways. Tubulin polymerization and mitotic spindle assembly inhibitor. Increases reactive oxygen species (ROS). Induces cell cycle arrest at the G0/G1 and G2/M phase.
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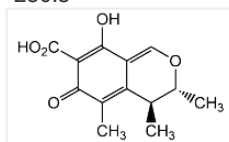
Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in methanol and ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(3R,4S)-6-Hydroxy-3,4,5-trimethyl-8-oxo-3,4-dihydroisochromene-7-carboxylic acid
Molecular Weight	250.3

Chemical structure



Molecular Formula	C ₁₃ H ₁₄ O ₅
CAS Number	518-75-2
PubChem identifier	54682830
SMILES	C[C@H]1OC=C2C(=O)C(=C(O)O)C(=O)C(=O)C(=C2[C@@H]1C)C
Source	Isolated from <i>Penicillium citrinum</i>
InChiKey	CQIUUKKVOEOPUDV-IYSWYEEDSA-N
Appearance	Yellow solid