Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



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.

Solubility & Handling

Soluble in methanol and ethanol

Storage instructions +4°

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 structure

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

Molecular Formula $C_{13}H_{14}O_5$ CAS Number518-75-2PubChem identifier54682830

Source Isolated from Penicillium citrinum
InChiKey CQIUKKVOEOPUDV-IYSWYEEDSA-N

Appearance Yellow solid