

Certificate of Analysis

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Product Name: Ochratoxin A

Catalog No.: 1291

Batch No.: 6

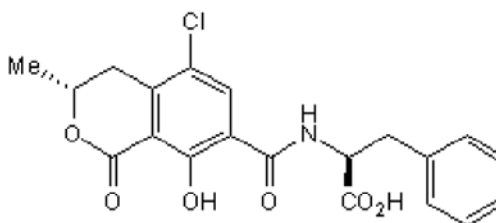
CAS Number: 303-47-9

EC Number: 206-143-7

IUPAC Name: *N*-[[*(3R)*-5-Chloro-3,4-dihydro-8-hydroxy-3-methyl-1-oxo-1*H*-2-benzopyran-7-yl]carbonyl]-*L*-phenylalanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₁₈ ClNO ₆
Batch Molecular Weight:	403.82
Physical Appearance:	Off White solid
Solubility:	ethanol to 50 mM DMSO to 100 mM
Storage:	Desiccate at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	At 105°C
HPLC:	Shows 100% purity

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Mycotoxin that increases activity of the endoplasmic reticulum ATP-dependent calcium pump. Induces JNK activation and apoptosis in MDCK-C7 cells at nanomolar concentrations. Stimulates lipid peroxidation.

Physical and Chemical Properties:

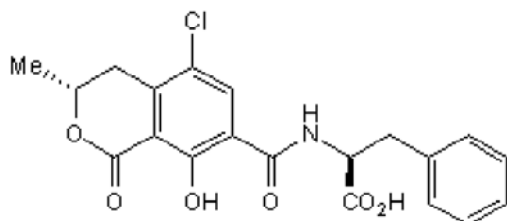
Batch Molecular Formula: C₂₀H₁₈ClNO₆

Batch Molecular Weight: 403.82

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

ethanol to 50 mM

DMSO to 100 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gekle et al (2000) Ochratoxin A induces JNK activation and apoptosis in MDCK-C7 cells at nanomolar concentrations. *J.Pharmacol.Exp.Ther.* **293** 837. PMID: 10869383.

Chong and Rahimtula (1992) Alterations in ATP-dependent calcium uptake by rat renal cortex microsomes following ochratoxin A administration in vitro. *Biochem.Pharmacol.* **44** 1401. PMID: 1417961.

Dirheimer and Creppy (1991) Mechanism of action of ochratoxin A. *IARC Sci.Publ.* **115** 171. PMID: 1820332.

Omar et al (1991) Role of cytochrome-P-450 in ochratoxin-A stimulated lipid-peroxidation. *J.Biochem.Toxicol.* **6** 203. PMID: 1770504.

Merck Index **12** 6836.

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