

Catalog # 10-3562

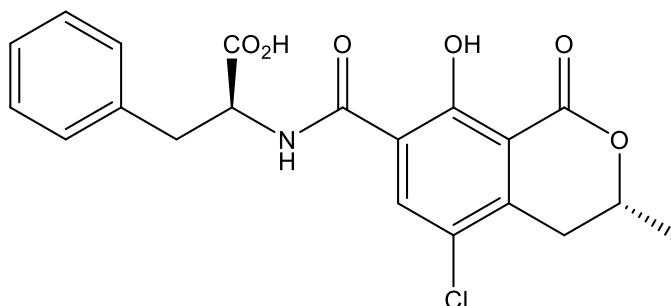
Ochratoxin A

CAS# 303-47-9

N-[[[(3R)-5-Chloro-3,4-dihydro-8-hydroxy-3-methyl-1-oxo-1H-2-benzopyran-7-yl]carbonyl]-L-phenylalanine; NSC-201422;

NSC-221991

Lot # R103427



Ochratoxin A is a mycotoxin that causes widespread contamination in foodstuffs and environments thus causing health risks to humans and animals.¹ It has been shown to be carcinogenic², mutagenic³, neurotoxic⁴, nephrotoxic⁵ and immunotoxic¹. It increases lipid peroxide levels in cells⁶ and reduces antioxidant defenses² leading to oxidative DNA damage³.

- 1) Al-Anati and Petzinger (2006); *Immunotoxic activity of ochratoxin A*, J. Vet. Pharmacol. Ther., **29** 79
- 2) Cavin *et al.* (2007); *Reduction in antioxidant defenses may contribute to ochratoxin A toxicity and carcinogenicity*, Toxicol. Sci., **96** 30
- 3) Palma *et al.* (2007); *Ochratoxin A-Induced Mutagenesis in Mammalian Cells Is Consistent with the Production of Oxidative Stress*, Chem. Res. Toxicol., **20** 1031
- 4) Sava *et al.* (2006); *Acute neurotoxic effects of the fungal metabolite ochratoxin A*, Neurotoxicology, **27** 82
- 5) Khoi *et al.* (2021); *Ochratoxin A-Induced Nephrotoxicity: Up-to-Date Evidence*, Int. J. Mol. Sci., **22** 11237
- 6) Petrik *et al.* (2003); *Apoptosis and oxidative stress induced by ochratoxin A in rat kidney*, Arch. Toxicol., **77** 685

PHYSICAL DATA

Molecular Weight:	403.82
Molecular Formula:	C ₂₀ H ₁₈ ClNO ₆
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml); Ethanol (50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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