



LKT Laboratories, Inc.

## Ochratoxin A

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### Product Information

Product ID O0829

CAS No. 303-47-9

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

Synonym Phenylalanine - ochratoxin A

Formula  $C_{20}H_{18}ClNO_6$

Formula Wt. 403.82

Melting Point 169° C

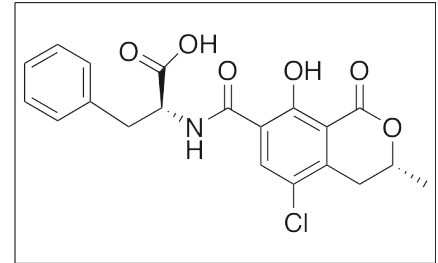
Purity ≥98%

Solubility Soluble in methanol (10 mg/mL), ethanol (20 mg/mL).

Store Temp -20° C

Ship Temp Ambient

Description Ochratoxin A is a mycotoxin initially produced by *Aspergillus* and *Penicillium* that exhibits carcinogenic, neurotoxic, and pro-fibrotic activities. Ochratoxin A is occasionally found as a contaminant in food and livestock feed. In vivo, ochratoxin A inhibits glial cell proliferation, induces kidney damage and collagen formation, and potentially increases the development of cancerous formations.



**Bulk quantities available upon request**

Product ID	Size
O0829	1 mg
O0829	5 mg

References Hennemeier I, Humpf HU, Gekle M, et al. Role of microRNA-29b in the ochratoxin A-induced enhanced collagen formation in human kidney cells. *Toxicology*. 2014 Oct 3;324:116-22. PMID: 25091173.

Paradells S, Rocamonde B, Llinares C, et al. Neurotoxic effects of ochratoxin A on the subventricular zone of adult mouse brain. *J Appl Toxicol*. 2014 Sep 25. [Epub ahead of print]. PMID: 25256750.

Qi X, Yu T, Zhu L, et al. Ochratoxin A induces rat renal carcinogenicity with limited induction of oxidative stress responses. *Toxicol Appl Pharmacol*. 2014 Sep 8. [Epub ahead of print]. PMID: 25218026.

Wu X, Hu J, Zhu B, et al. Aptamer-targeted magnetic nanospheres as a solid-phase extraction sorbent for determination of ochratoxin A in food samples. *J Chromatogr A*. 2011 Oct 14;1218(41):7341-7346. PMID: 21890142.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.