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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Ochratoxin A-¹³C₂₀

Item No. 31295

CAS Registry No.: 911392-42-2

Formal Name: N-[[[(3R)-5-chloro-3,4-dihydro-8-hydroxy-3-(methyl-¹³C)-1-oxo-1H-2-benzopyran-7-yl-1,3,4,4a,5,6,7,8,8a-¹³C₉]carbonyl-¹³C]-L-phenylalanine-¹³C₉

Synonym: OTA-¹³C₂₀

MF: [¹³C]₂₀H₁₈ClNO₆

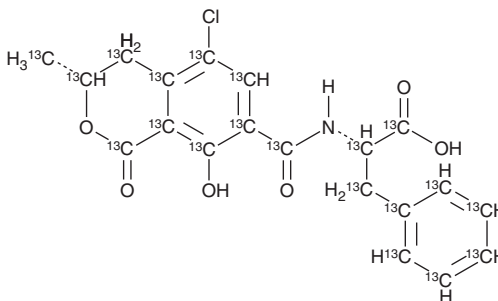
FW: 423.7

Purity: ≥98%

Supplied as: A solution in acetonitrile

Storage: -20°C

Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Ochratoxin A-¹³C₂₀ is intended for use as an internal standard for the quantification of ochratoxin A (Item No. 11439) by GC- or LC-MS. Ochratoxin A is a mycotoxin that has been found in *Aspergillus* and *Penicillium*.¹ It increases lipid peroxide levels and the number of apoptotic cells, as well as reduces superoxide dismutase activity in rat kidney when administered at a dose of 120 µg/kg.² Topical application of ochratoxin A (80 µg/mouse) induces DNA damage, cell cycle arrest at the G₀/G₁ phase, and apoptosis in mouse skin cells.¹ It also initiates tumor formation in a two-stage mouse skin tumorigenesis model. Ochratoxin A has been found as a contaminant in a variety of foods.³

References

1. Kumar, R., Ansari, K.M., Chaudhari, B.P., *et al.* Topical application of ochratoxin A causes DNA damage and tumor initiation in mouse skin. *PLoS One* **7**(10), (2012).
2. Petrik, J., Zanić-Grubišić, T., Barisić, K., *et al.* Apoptosis and oxidative stress induced by ochratoxin A in rat kidney. *Arch. Toxicol.* **77**(12), 685-693 (2003).
3. National Toxicology Program. Ochratoxin A: CAS No. 303-47-9. *Report on Carcinogens* (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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