

Product Data Sheet

Product Name: Ochratoxin A-¹³C₂₀

Cat. No.: GC47814

Chemical Properties

Cas. No. 911392-42-2

SMILES O[13C]([13C@H]([13CH2][13C]1=[13CH][13CH]=[13CH][13CH]=[13CH]1)N[13C]([13C]2=[13CH][13C](Cl)=[13C]([13CH2][13C@@H]([13CH3])O[13C]3=O)[13C]3=[13C]2O)=O)=O

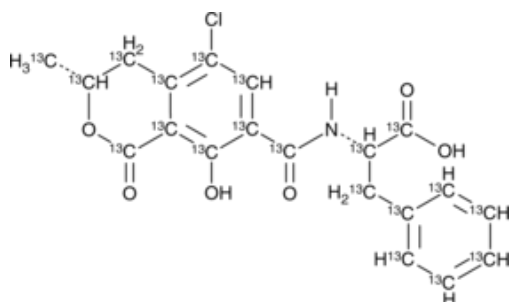
Formula [13C]₂₀H₁₈ClNO₆ M.Wt 423.7

Solubility Acetonitrile: soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ochratoxin A-¹³C₂₀ is intended for use as an internal standard for the quantification of ochratoxin A 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

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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

1.Kumar, R., Ansari, K.M., Chaudhari, B.P., et al.Topical application of ochratoxin A causes DNA damage and tumor initiation in mouse skinPLoS One7(10)(2012) 2.Petrik, J., Zani?-Grubisi?, T., Barisi?, K., et al.Apoptosis and oxidative stress induced by ochratoxin A in rat kidneyArch. Toxicol.77(12)685-693(2003) 3.Program, N.T.Ochratoxin A: CAS No. 303-47-9Report on Carcinogens12335-337(2011)

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