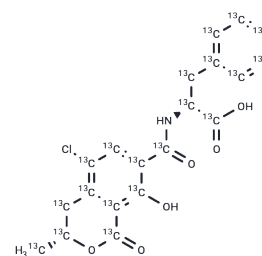


Ochratoxin A-13C20

Chemical Properties

| | |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 911392-42-2 |
| Formula: | C ₂₀ H ₁₈ ClNO ₆ |
| Molecular Weight: | 423.66 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Ochratoxin A-13C20 is intended for use as an internal standard for the quantification of ochratoxin A by GC- or LC-MS. Ochratoxin A (T75659) is a mycotoxin that has been found in <i>Aspergillus</i> and <i>Penicillium</i> . 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. Topical application of ochratoxin A (80 µg/mouse) induces DNA damage, cell cycle arrest at the G ₀ /G ₁ phase, and apoptosis in mouse skin cells. It also initiates tumor formation in a two-stage mouse skin tumorigenesis model. Ochratoxin A (T75659) has been found as a contaminant in a |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Solubility Information

| | |
|------------|------------------------------------------------------------------------------------------|
| Solubility | Acetonitrile: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3604 mL | 11.8019 mL | 23.6038 mL |
| 5 mM | 0.4721 mL | 2.3604 mL | 4.7208 mL |
| 10 mM | 0.236 mL | 1.1802 mL | 2.3604 mL |
| 50 mM | 0.0472 mL | 0.236 mL | 0.4721 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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)

Petrik, J., Zani?-Grubisi?, T., Barisi?, K., et al. Apoptosis and oxidative stress induced by ochratoxin A in rat kidney Arch. Toxicol. 77(12)685-693(2003)

Program, N.T. Ochratoxin A: CAS No. 303-47-9 Report on Carcinogens 12335-337(2011)

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