

Product Data Sheet

Product Name: Ochratoxin B- $^{13}\text{C}_{20}$

Cat. No.: GC91764

Chemical Properties

Cas. No. N/A

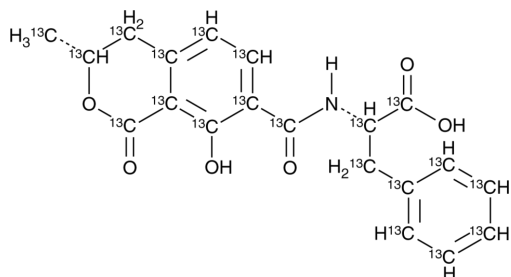
Formula $[\text{C}^{13}]_{20}\text{H}_{19}\text{NO}_6$ M.Wt 389.2

Solubility N/A Storage -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 B- $^{13}\text{C}_{20}$ (OTB- $^{13}\text{C}_{20}$) is intended for use as an internal standard for the quantification of ochratoxin B by GC- or LC-MS. OTB is a mycotoxin that has been found in *Aspergillus* and is a non-chlorinated derivative of OTA.^[1] Unlike OTA, OTB is not genotoxic to HepG2 cells but does inhibit cell division when used at concentrations ranging from 1 to $25\text{ }\mu\text{g/ml}$.^[2] It induces mortality ($\text{LC}_{50} = 700\text{ nM}$) and craniofacial malformations ($\text{EC}_{50} = 200\text{ nM}$) in *Xenopus* embryos.^[3] OTB has been found in poultry feed.^[4]

References:

[1]. Varga, J., Kevei, E., Rinyu, E., et al. Ochratoxin production by *Aspergillus* species. *Appl. Environ. Microbiol.* 2004; 70: 100-105.

Caution: Product has not been fully validated for medical applications. For research use only.

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Microbiol.62(12)4461-4464(1996).

[2].Knasmüller, S., Cavin, C., Chakraborty, A., et al.Structurally related mycotoxins ochratoxin A, ochratoxin B, and citrinin differ in their genotoxic activities and in their mode of action in human-derived liver (HepG2) cells: Implications for risk assessmentNutr. Cancer50(2)190-197(2004).

[3].O'Brien, E., Prietz, A., and Dietrich, D.R.Investigation of the teratogenic potential of ochratoxin A and B using the FETAX systemBirth Defects Res. B Dev. Reprod. Toxicol.74(5)417-423(2005).

[4].Ezekiel, C.N., Bandyopadhyay, R., Sulyok, M., et al.Fungal and bacterial metabolites in commercial poultry feed from NigeriaFood Addit. Contam. Part A Chem. Anal. Control Expo. Risk Assess.29(8)1288-1299(2012).

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