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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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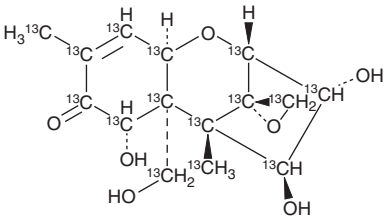
PRODUCT INFORMATION

$^{13}C_{15}$-Nivalenol

Item No. 31259

CAS Registry No.:	911392-40-0
Formal Name:	(3α,4β,7α)-12,13-epoxy-3,4,7,15-tetrahydroxy-trichothec-9-en-8-one-$^{13}C_{15}$
MF:	$[^{13}C]_{15}H_{20}O_7$
FW:	327.2
Purity:	≥98%
Supplied as:	A 25 µg/ml solution in acetonitrile
Storage:	-20°C
Stability:	≥2 years



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

Description

$^{13}C_{15}$-Nivalenol is intended for use as an internal standard for the quantification of nivalenol (Item No. 11438) by GC- or LC-MS. Nivalenol is a trichothecene mycotoxin that has been found in *Fusarium*.[1] It is lethal to mice (LD_{50} = 6.9 mg/kg).[2] Nivalenol (5, 10, and 15 mg/kg) also induces thymic, splenic, and Peyer's patch cell apoptosis in mice.[3]

References

1. Yang, Z., Concannon, J., Ng, K.S., *et al*. Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. *Sci. Rep.* **6**, 30263 (2016).
2. Yoshizawa, T. and Morooka, N. Studies on the toxic substances in the infected cereals (part 3): Acute toxicities of new trichothecene mycotoxins: Deoxynivalenol and its monoacetate. *J. Food Hyg.* **15(4)**, 261-269 (1974).
3. Poapolathep, A., Ohtsuka, R., Kiatipattanasakul, W., *et al*. Nivalenol-induced apoptosis in thymus, spleen and Peyer's patches of mice. *Exp. Toxicol. Pathol.* **53(6)**, 441-446 (2002).

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