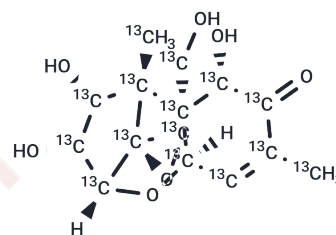


13C15-Nivalenol

Chemical Properties

CAS No. :	911392-40-0
Formula:	C ₁₅ H ₂₀ O ₇
Molecular Weight:	327.203
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	13C15-Nivalenol is intended for use as an internal standard for the quantification of nivalenol by GC- or LC-MS. Nivalenol (T13797) is a trichothecene mycotoxin that has been found in <i>Fusarium</i> . 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
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Solubility Information

Solubility	Acetonitrile: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0562 mL	15.2812 mL	30.5623 mL
5 mM	0.6112 mL	3.0562 mL	6.1125 mL
10 mM	0.3056 mL	1.5281 mL	3.0562 mL
50 mM	0.0611 mL	0.3056 mL	0.6112 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

- 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)
- 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. Soc. Jpn.* 15(4):261-269 (1974)
- 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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