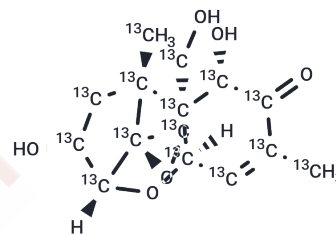


4-deoxy Nivalenol-13C15

Chemical Properties

CAS No. :	911392-36-4
Formula:	C ₁₅ H ₂₀ O ₆
Molecular Weight:	311.204
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	4-deoxy Nivalenol-13C15 is intended for use as an internal standard for the quantification of 4-deoxy nivalenol by GC- or LC-MS. 4-deoxy Nivalenol (T15097) is a trichothecene mycotoxin that has been found in <i>Fusarium</i> . It binds to eukaryotic ribosomes and inhibits protein synthesis in mice when administered at doses ranging from 5 to 25 mg/kg. 4-deoxy Nivalenol (T15097) (0.1 and 0.2 mg/kg) induces emesis in pigs and decreases feed consumption in pigs when administered at a dose of 40 ppb in the diet. It induces lethality in mice (LD ₅₀ = 46-78 mg/kg). 4-deoxy Nivalenol has been found in <i>F. graminearum</i> -infected cereal grains such as wheat, barley, and corn.
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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	3.2134 mL	16.0668 mL	32.1337 mL
5 mM	0.6427 mL	3.2134 mL	6.4267 mL
10 mM	0.3213 mL	1.6067 mL	3.2134 mL
50 mM	0.0643 mL	0.3213 mL	0.6427 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

- Pestka, J.J., and Smolinski, A.T. Deoxynivalenol: Toxicology and potential effects on humans. *J. Toxicol. Environ. Health B. Crit. Rev.* 8(1)39-69(2005)
- Forsyth, D.M., Yoshizawa, T., Morooka, N., et al. Emetic and refusal activity of deoxynivalenol to swine. *Appl. Environ. Microbiol.* 34(5)547-552(1977)
- Pestka, J.J. Deoxynivalenol: Mechanisms of action, human exposure, and toxicological relevance. *Arch. Toxicol.* 84(9) 663-679(2010)

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