Product Data Sheet

Product Name: 15-Acetyldeoxy Nivalenol
Cat. No.: GC19442

Chemical Properties

Cas. No.	88337-96-6		
SMILES	CC1=C[C@]2([H])[C@]([C@](C[C@H]3O)(C)C4(OC4)[C@]3([H])O2)(COC(C)=O)[C@H](O)C1=O		
Formula	$C_{17}H_{22}O_7$	M.Wt	338.4
Solubility	Chloroform: soluble,Ethanol: soluble	Storage	Store at -20°Cprotect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	15-Acetyldeoxy Nivalenol		

Background

15-Acetyldeoxy nivalenol is a trichothecene mycotoxin produced by certain species of the fungus Fusarium, particularly those found on cereal crops. It is an acetylated derivative of 4-deoxy nivalenol that can be converted to DON in the body. 15-Acetyldeoxy nivalenol induces vomiting and anorexia in livestock and experimental animals and its toxicity compared with DON is dependent upon the route of administration. It also changes brain bioamine neurotransmitter levels in pigs and chickens.

References:
[1].Ajandouz, E.H., Berdah, S., Moutardier, V., et al. Hydrolytic fate of 3/15-acetyldeoxynivalenol in humans: Specific deacetylation by the small intestine and liver revealed using in vitro and ex vivo approaches Toxins (Basel) 8(8), E232 (2016).
[2]. Pestka, J.J., Lin, W.-S., and Miller, E.R. Emetic activity of the trichothecene 15-acetyldeoxynivalenol in swine Food Chem. Toxicol. 25(11), 855-888 (1987).
[3].Payros, D., Alazzane-Kpembi, I., Pierron, A., et al. Toxicology of deoxynivalenol and

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its acetylated and modified forms Arch. Toxicol. 90(12), 2931-2957 (2016).
[4].Bonnet, M.S., Roux, J., Mounien, L., et al. Advances in deoxynivalenol toxicity mechanisms: The brain as a target Toxins (Basel) 4(11), 1120-1138 (2012).

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