

Deoxynivalenol

Chemical Properties

CAS No. : 51481-10-8

Formula: C₁₅H₂₀O₆

Molecular Weight: 296.32

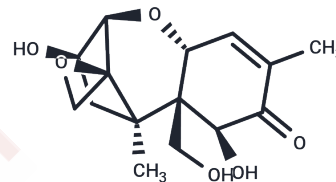
Appearance: no data available

Storage:

store at low temperature, keep away from moisture,

keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Deoxynivalenol (Vomitoxin) is a mycotoxin produced by <i>Fusarium</i> spp. of the single trichothecene family and is commonly found in contaminated food and feed. Deoxynivalenol crosses the intestinal mucosa via a cellular bypass at the tight junctions. Deoxynivalenol transporters are unaffected by inhibitors of P-glycoprotein (PgP) or multidrug resistance-associated protein (MRP). Deoxynivalenol commonly causes diarrhea, vomiting, and gastrointestinal inflammation in humans and animals.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 90.88 mg/mL (306.7 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3747 mL	16.8737 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 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.

Reference

Sergent T, et al. Deoxynivalenol transport across human intestinal Caco-2 cells and its effects on cellular metabolism at realistic intestinal concentrations. *Toxicol Lett.* 2006 Jul 1;164(2):167-76.

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