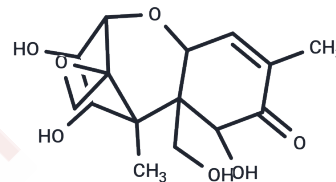


Nivalenol

Chemical Properties

CAS No. :	23282-20-4
Formula:	C ₁₅ H ₂₀ O ₇
Molecular Weight:	312.32
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Nivalenol is a fungal metabolite produced by <i>Fusarium graminearum</i> . Nivalenol induces cell death through caspase and intrinsic apoptotic pathways thus affecting the immune system and causing emesis, growth retardation, and reproductive disorders.
Targets(IC50)	Apoptosis,Caspase,Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 45 mg/mL (144.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 4 mg/mL (12.81 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2018 mL	16.0092 mL	32.0184 mL
5 mM	0.6404 mL	3.2018 mL	6.4037 mL
10 mM	0.3202 mL	1.6009 mL	3.2018 mL
50 mM	0.064 mL	0.3202 mL	0.6404 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

Bryła M, et al. Natural Occurrence of Nivalenol, Deoxynivalenol, and Deoxynivalenol-3-Glucoside in Polish Winter Wheat. *Toxins (Basel)*. 2018 Feb 13;10(2).

Aupanun S, et al. Individual and combined mycotoxins deoxynivalenol, nivalenol, and fusarenon-X induced apoptosis in lymphoid tissues of mice after oral exposure. *Toxicon*. 2019 Jul;165:83-94.

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