

Nivalenol

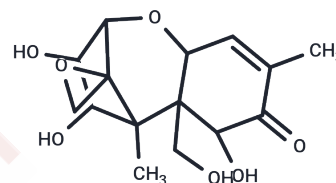
Chemical Properties

CAS No. : 23282-20-4

Formula: C₁₅H₂₀O₇

Molecular Weight: 312.32

Appearance:

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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)	Caspase

Solubility Information

Solubility	DMSO: 45.0 mg/mL (144.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2018 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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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