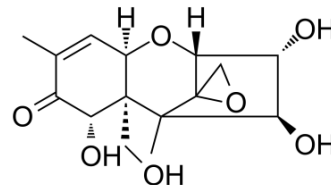


Nivalenol

Cat. No.:	HY-N6801
CAS No.:	23282-20-4
Molecular Formula:	C ₁₅ H ₂₀ O ₇
Molecular Weight:	312.32
Target:	Caspase; Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description

Nivalenol, classified as type B trichothecenes toxins produced by *Fusarium graminearum*, is a fungal metabolite present in agricultural product^[1]. Nivalenol induces cell death through **caspase**-dependent mechanisms and via the intrinsic **apoptotic** pathway. Nivalenol affects the immune system, causes emesis, growth retardation, reproductive disorders and has a haematotoxic/myelotoxic effect^[2].

IC₅₀ & Target

Caspase

REFERENCES

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

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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