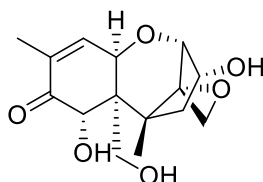


Deoxynivalenol

Code No.: **BIA-D1928**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : DON, NSC 269144, Vomitoxin

Specifications

CAS #	: 51481-10-8
Molecular Formula	: C₁₅H₂₀O₆
Molecular Weight	: 296.32
Source	: <i>Fusarium sp.</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Deoxynivalenol is a trichothecene mycotoxin produced by various *Fusarium sp.* infecting grains. Deoxynivalenol has immunosuppressant activity, inducing activator protein-1 (AP-1) activity in the murine EL-4 thymoma model which may contribute to cytokine dysregulation and immunotoxic effects associated with exposure to trichothecene mycotoxins. Deoxynivalenol is an emetic and has weak Gram positive antibiotic activity.

References

1. *Fusarium* species pathogenic to barley and their associated mycotoxins. Salas B. et al. *Plant Dis.* 1999, 83, 667.
2. Modulation of transcription factor AP-1 activity in murine EL-4 thymoma cells by vomitoxin (deoxynivalenol). Li S. et al. *Tox Appl Pharmacol.* 2000, 163, 17.
3. Deoxynivalenol impairs the immune functions of neutrophils. Gauthier T. et al. *Mol Nutr Food Res.* 2013, 57, 1026.
4. Elaboration of vomitoxin and zearalenone by *Fusarium* isolates and the biological activity of *Fusarium*-produced toxins. Vesonder R.F. et al. *Appl Env Microbiol.* 1981, 42, 1132.