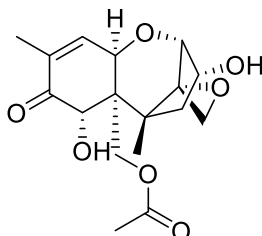


## 15-Acetyldeoxynivalenol

Code No.: **BIA-A1922**

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



Synonyms : 15-Acetylvomitoxin, 15-O-Acetyl-4-deoxynivalenol

### Specifications

CAS #	: 88337-96-6
Molecular Formula	: C <sub>17</sub> H <sub>22</sub> O <sub>7</sub>
Molecular Weight	: 338.35
Source	: <i>Fusarium</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

### Application Notes

15-Acetyldeoxynivalenol is a trichothecene mycotoxin produced by *Fusarium* sp. infecting cereals and grains and posing a health risk to humans and livestock. 15-Acetyldeoxynivalenol has lower acute oral toxicity than deoxynivalenol in mice. In a comparative study of the effects of deoxynivalenol and its 3- and 15-acetyl derivatives on transepithelial transport, gene expression, and cytokine secretion in human intestinal cell Caco-2, all metabolites could induce mRNA expression and production of IL-8, with 15-acetyldeoxynivalenol causing the highest permeability and IL-8 secretion.

### References

1. Comparison of acute toxicities of deoxynivalenol (vomitoxin) and 15-acetyldeoxynivalenol in the B6C3F1 mouse. Forsell J.H. et al. Food Chem. Toxicol. 1987, 25, 155.
2. Comparative study of deoxynivalenol, 3-acetyldeoxynivalenol, and 15-acetyldeoxynivalenol on intestinal transport and IL-8 secretion in the human cell line Caco-2. Kadota T. et al. Toxicol. In Vitro 2013, 27, 1888.