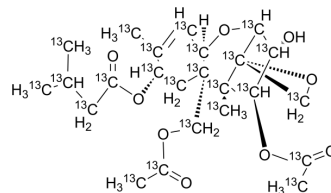


T-2 Toxin-¹³C₂₄

Cat. No.:	HY-N6792S
Molecular Formula:	¹³ C ₂₄ H ₃₄ O ₉
Molecular Weight:	490.35
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	T-2 Toxin- ¹³ C ₂₄ (T-2 Mycotoxin- ¹³ C ₂₄) is ¹³ C-labeled T-2 Toxin (HY-N6792). T-2 Toxin (T-2 Mycotoxin) is a toxic trichothecene mycotoxin produced by various <i>Fusarium</i> species in feedstuffs and cereal grains. T-2 Toxin (T-2 Mycotoxin) inhibits the synthesis of DNA and RNA, interferes with the metabolism of membrane phospholipids, and increases the level of liver lipid peroxides. T-2 Toxin (T-2 Mycotoxin) induces apoptosis in the immune system, gastrointestinal tissues, and fetal tissues ^{[1][2][3]} .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Li Y, et al. T-2 toxin, a trichothecene mycotoxin: review of toxicity, metabolism, and analytical methods. *J Agric Food Chem*. 2011 Apr 27;59(8):3441-53.
- [2]. Sun YX, et al. Toxicokinetics of T-2 toxin and its major metabolites in broiler chickens after intravenous and oral administration. *J Vet Pharmacol Ther*. 2015 Feb;38(1):80-5
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-220.

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

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