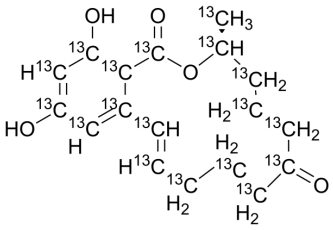
Zearalenone-$^{13}C_{18}$

Cat. No.:	HY-103447S1
CAS No.:	911392-43-3
Molecular Formula:	$^{13}C_{18}H_{22}O_5$
Molecular Weight:	336.23
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Zearalenone-$^{13}C_{18}$ (Mycotoxin F2-$^{13}C_{18}$; Toxin F2-$^{13}C_{18}$) is the ^{13}C labeled Zearalenone (HY-103447)[1]. Zearalenone is a mycotoxin produced mainly by fungi belonging to the genus Fusarium in foods and feeds. Possess oestrogenic activity in pigs, cattle and sheep, with low acute toxicity. Causes precocious development of mammae and other estrogenic effects in young gilts[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]. Zinedine A, et al. Review on the toxicity, occurrence, metabolism, detoxification, regulations and intake of zearalenone: an oestrogenic mycotoxin. Food Chem Toxicol. 2007 Jan;45(1):1-18.

[2]. Richard JL, et al. Some major mycotoxins and their mycotoxicoses--an overview. Int J Food Microbiol. 2007 Oct 20;119(1-2):3-10.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-220.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA