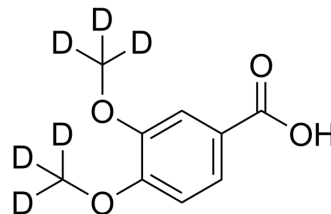


Veratric acid-d₆

Cat. No.:	HY-N2007S
CAS No.:	1162658-12-9
Molecular Formula:	C ₉ H ₄ D ₆ O ₄
Molecular Weight:	188.21
Target:	COX; Reactive Oxygen Species; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Veratric acid-d ₆ is deuterium labeled Veratric acid. Veratric acid (3,4-Dimethoxybenzoic acid) is an orally active phenolic compound derived from vegetables and fruits, has antioxidant[1] and anti-inflammatory activities[3]. Veratric acid also acts as a protective agent against hypertension-associated cardiovascular remodelling[2]. Veratric acid reduces upregulated COX-2 expression, and levels of PGE ₂ , IL-6 after UVB irradiation[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Choi WS, et al. Veratric acid inhibits iNOS expression through the regulation of PI3K activation and histone acetylation in LPS-stimulated RAW264.7 cells. *Int J Mol Med.* 2015 Jan;35(1):202-10.
- [3]. Saravanakumar M, et al. Oral administration of veratric acid, a constituent of vegetables and fruits, prevents cardiovascular remodelling in hypertensive rats: a functional evaluation. *Br J Nutr.* 2015 Nov 14;114(9):1385-94.
- [4]. Shin SW, et al. Antagonist effects of veratric acid against UVB-induced cell damages. *Molecules.* 2013 May 10;18(5):5405-19.

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

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