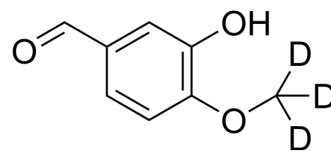


Isovanillin-d₃

Cat. No.:	HY-I0637S
CAS No.:	74495-73-1
Molecular Formula:	C ₈ H ₅ D ₃ O ₃
Molecular Weight:	155.17
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isovanillin-d ₃ is the deuterium labeled Isovanillin[1]. Isovanillin is an aldehyde oxidase inhibitor[2]. Antispasmodic activities[3]. Antidiarrheal activities[4].
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 Feb;53(2):211-216.
- [2]. Panoutsopoulos GI, et al. Enzymatic oxidation of vanillin, isovanillin and protocatechuic aldehyde with freshly prepared Guinea pig liver slices. *Cell Physiol Biochem*. 2005;15(1-4):89-98.
- [3]. Sadraei H, et al. Antispasmodic activity of isovanillin and isoacetovanillon in comparison with *Pycnocyclus spinosa* Decne.exBoiss extract on rat ileum. *Res Pharm Sci*. 2014 May-Jun9(3):187-92.
- [4]. Sadraei H, et al. Antidiarrheal activities of isovanillin, iso-acetovanillon and *Pycnocyclus spinosa* Decne ex.Boiss extract in mice. *Res Pharm Sci*. 2014 Mar-Apr9(2):83-9.

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

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