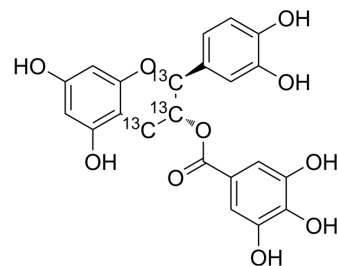


(+/-)-Catechin Gallate-¹³C₃

Cat. No.:	HY-N0356S
Molecular Formula:	C ₁₉ ¹³ C ₃ H ₁₄ O ₁₀
Molecular Weight:	441.32
Target:	COX; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(+/-)-Catechin Gallate- ¹³ C ₃ is the ¹³ C-labeled (-)-Catechin gallate. (-)-Catechin gallate is a minor constituent in green tea catechins. (-)-Catechin gallate inhibits the activity of COX-1 and COX-2 enzymes.
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]. Babich H, et al. In vitro cytotoxicity of (-)-catechin gallate, a minor polyphenol in green tea. *Toxicol Lett*. 2007 Jul 10;171(3):171-80.

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

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