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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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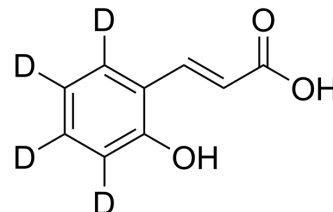
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2-Hydroxycinnamic acid-d₄

Cat. No.:	HY-W012531S2
Molecular Formula:	C ₉ H ₄ D ₄ O ₃
Molecular Weight:	168.18
Target:	Isotope-Labeled Compounds; Bacterial; Endogenous Metabolite; SARS-CoV; HIV
Pathway:	Others; Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2-Hydroxycinnamic acid-d₄ is deuterium labeled 2-Hydroxycinnamic acid. 2-Hydroxycinnamic acid is a phenolic acid with antimicrobial and antioxidant properties. 2-Hydroxycinnamic acid has antimicrobial activity against *Staphylococcus aureus* and is not susceptible to drug resistance. 2-Hydroxycinnamic acid shows inhibitory effects on infection of HIV/SARS-CoV S pseudovirus with an IC₅₀ of 0.3 mM. In addition, 2-Hydroxycinnamic acid has neuroprotective and antitumor activity^{[1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Tran Minh Ngoc, et al. A new coumarin and cytotoxic activities of constituents from *Cinnamomum cassia*. *Nat Prod Commun*. 2014 Apr;9(4):487-8.
- [3]. Keman D, et al. Antibiotic-Resistant *Staphylococcus aureus* Does Not Develop Resistance to Vanillic Acid and 2-Hydroxycinnamic Acid after Continuous Exposure in Vitro. *ACS Omega*. 2019 Sep 10;4(13):15393-15400.
- [4]. Min Zhuang, et al. Procyanidins and butanol extract of *Cinnamomi Cortex* inhibit SARS-CoV infection. *Antiviral Res*. 2009 Apr;82(1):73-81.
- [5]. Hao S, et al. Hydroxycinnamic Acid from Corn cob and Its Structural Analogues Inhibit Aβ₄₀ Fibrillation and Attenuate Aβ₄₀-Induced Cytotoxicity. *J Agric Food Chem*. 2020 Aug 19;68(33):8788-8796.

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

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