



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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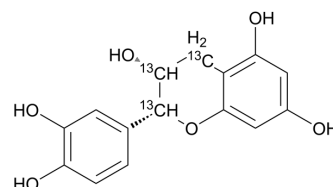
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## (±)-Epicatechin-<sup>13</sup>C<sub>3</sub>

<b>Cat. No.:</b>	HY-N0001S
<b>CAS No.:</b>	1217780-28-3
<b>Molecular Formula:</b>	C <sub>12</sub> <sup>13</sup> C <sub>3</sub> H <sub>14</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	293.25
<b>Target:</b>	COX; Endogenous Metabolite; Ferroptosis; Isotope-Labeled Compounds
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; Apoptosis; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(±)-Epicatechin- <sup>13</sup> C <sub>3</sub> is the <sup>13</sup> C labeled (±)-Epicatechin. <a href="#">(-)-Epicatechin</a> (HY-N0001) inhibits cyclooxygenase-1 (COX-1) with an IC50 of 3.2 μM. (-)-Epicatechin inhibits the IL-1β-induced expression of iNOS by blocking the nuclear localization of the p65 subunit of NF-κB[1].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Waffo-Téguo P, et al. Potential cancer-chemopreventive activities of wine stilbenoids and flavans extracted from grape (*Vitis vinifera*) cell cultures. *Nutr Cancer.* 2001;40(2):173-9.
- [3]. Shay J, et al. Molecular Mechanisms and Therapeutic Effects of (-)-Epicatechin and Other Polyphenols in Cancer, Inflammation, Diabetes, and Neurodegeneration. *Oxid Med Cell Longev.* 2015;2015:181260.
- [4]. Nogueira L, et al. (-)-Epicatechin enhances fatigue resistance and oxidative capacity in mouse muscle. *J Physiol.* 2011 Sep 15;589(Pt 18):4615-31.

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

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