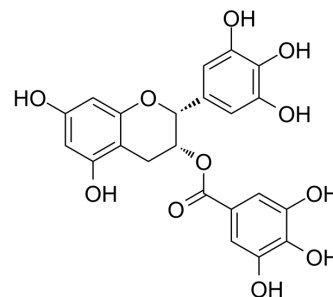


(-)-Epigallocatechin Gallate (Standard)

Cat. No.:	HY-13653R
CAS No.:	989-51-5
Molecular Formula:	C ₂₂ H ₁₈ O ₁₁
Molecular Weight:	458.37
Target:	Endogenous Metabolite; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 30 mg/mL (65.45 mM)
 H₂O : 20 mg/mL (43.63 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.1816 mL	10.9082 mL	21.8164 mL
	5 mM		0.4363 mL	2.1816 mL	4.3633 mL
	10 mM		0.2182 mL	1.0908 mL	2.1816 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(-)-Epigallocatechin Gallate (Standard) is the analytical standard of (-)-Epigallocatechin Gallate. This product is intended for research and analytical applications. (-)-Epigallocatechin Gallate (EGCG) is a major polyphenol in green tea, which can inhibit cell proliferation and induce cell apoptosis. (-)-Epigallocatechin Gallate inhibits glutamate dehydrogenase 1/2 (GDH1/2, GLUD1/2) activity. (-)-Epigallocatechin Gallate has a potent anticancer, antioxidant and anti-inflammatory properties against various types of cancers such as colorectal cancer, myeloid leukemia, thyroid carcinoma^{[1][2][3][4]}.

CUSTOMER VALIDATION

- Biomaterials. 2021, 120952.
- Cancer Res. 2022 Jul 27;CAN-22-0042.
- Sci Total Environ. 2024 Jan 8:169923.

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- Cell Death Dis. 2023 Jul 29;14(7):481.
 - Br J Cancer. 2021 Jan;124(2):425-436.

See more customer validations on www.MedChemExpress.com

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

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