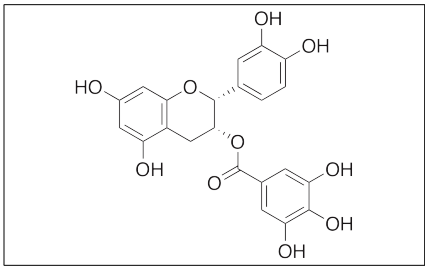
LKT Laboratories, Inc.

(−)-Epicatechin Gallate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID E6232
CAS No. 1257-08-5
Chemical Name 3,4,5-Trihydroxybenzoic acid, (2R,3R)-3,4- dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2-H-1-benzopyran-3-yl ester
Synonym ECG



Formula $C_{22}H_{18}O_{10}$
Formula Wt. 442.37
Melting Point 218°C
Purity ≥98%
Solubility Soluble in water or alcohol.

Bulk quanitites available upon request

Product ID	Size
E6232	1 mg
E6232	5 mg
E6232	25 mg

Store Temp -20°C
Ship Temp Ambient

Description (-)-Epicatechin gallate (ECG) is a flavanol/catechin originally found in *Camilla* and other plan sources; it exhibits antioxidative, neuromodulatory, anticancer, and anti-inflammatory activities. ECG displays agonist activity at cannabinoid 1 (CB1) receptors. ECG also inhibits expression of FLT3 and decreases phosphorylation of p38 MAPK, Akt, and STAT5 in acute myelogenous leukemia (AML) cells, suppressing cell proliferation. In vitro, this compound inhibits LPS- or peptidoglycan-induced production of VEGF and expression of COX-2.

References

Nakanishi T, Mukai K, Hosokawa Y, et al. Catechins inhibit vascular endothelial growth factor production and cyclooxygenase-2 expression in human dental pulp cells. Int Endod J. 2014 May 21. [Epub ahead of print]. PMID: 24847951.

Ly BT, Chi HT, Yamagishi M, et al. Inhibition of FLT3 expression by green tea catechins in FLT3 mutated-AML cells. PLoS One. 2013 Jun 20;8(6):e66378. PMID: 23840454.

Korte G, Dreiseitel A, Schreier P, et al. Tea catechins' affinity for human cannabinoid receptors. Phytomedicine. 2010 Jan;17(1):19-22. PMID: 19897346.