



LKT Laboratories, Inc.

(+)-Catechin

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Product Information

Product ID C0278

CAS No. 154-23-4

Chemical Name (2R-trans)-2-(3,4-Dihydroxyphenyl)-3,4-dihydro-2H-1-benzopyran-3,5,7-triol

Synonym Catechol, Catechinic acid, Dexcyanidanol, Cyanidol, Catergen

Formula C₁₅H₁₄O₆

Formula Wt. 290.27

Melting Point 93-96 °C

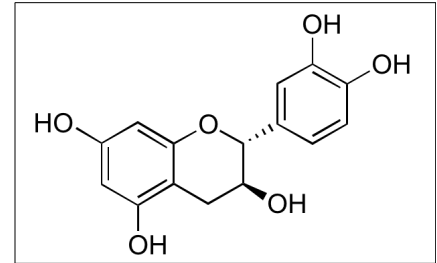
Purity ≥99%

Solubility Soluble in hot water, alcohol acetone, and glacial acetic acid.

Store Temp -20 °C

Ship Temp Ambient

Description Catechin is a flavanol originally found in *Camilla* and other plant sources; it exhibits antioxidative, anti-aging, anti-atherosclerotic, anti-ulcerative, neuroprotective, neuromodulatory, anticancer chemotherapeutic, and chemopreventive activities. Catechin increases life span in *Caenorhabditis elegans* and inhibits monoamine oxidase B (MAO-B) in vitro. Catechin decreases atherosclerotic lesion area, suppresses leukocyte adhesion, and inhibits LDL oxidation and uptake in animal models of atherosclerosis. In animal models of brain hemorrhage, catechin increases activity of Nrf2 and phase II detoxifying enzymes, inhibiting oxidative stress, neurological deficits, and lesion formation. In other animal models, catechin inhibits histidine decarboxylase, decreasing gastric lesion formation. Additionally, catechin increases muscle fatigue resistance and exercise capacity in vivo. This compound also decreases tumor number and formation and suppresses phosphorylation of FAK in animal models of colorectal cancer.



Bulk quantities available upon request

Product ID	Size
C0278	1 mg
C0278	5 mg

References Chang CF, Cho S, Wang J. (-)-Epicatechin protects hemorrhagic brain via synergistic Nrf2 pathways. *Ann Clin Transl Neurol.* 2014 Apr 1;1(4):258-271. PMID: 24741667.

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Hou WC, Lin RD, Chen CT, et al. Monoamine oxidase B (MAO-B) inhibition by active principles from *Uncaria rhynchophylla*. *J Ethnopharmacol.* 2005 Aug 22;100(1-2):216-20. PMID: 15890481.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.