



LKT Laboratories, Inc.

(-)-Gallocatechin

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Product Information

Product ID G0243

CAS No. 3371-27-5

Chemical Name

Synonym

Formula $C_{15}H_{14}O_7$

Formula Wt. 306.27

Melting Point 200°C

Purity ≥98%

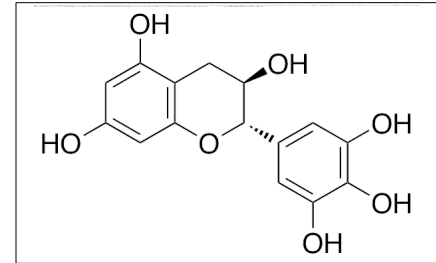
Solubility

Store Temp 4°C

Ship Temp Ambient

Description

(-)-Gallocatechin is a polyphenol originally derived from a variety of sources, including green tea, coffee, safflower, and almonds; it is the epimer of (-)-epigallocatechin. (-)-Gallocatechin, like other catechins, exhibits a variety of beneficial properties, including anti-diabetic, antioxidative, antiviral, and antibacterial activities. In vivo, (-)-gallocatechin inhibits α -amylase, decreasing absorption of carbohydrates and preventing increases in blood glucose levels. This compound increases radical scavenging in vitro and also inhibits the hemorrhagic activities of matrix metalloproteinases. In vitro, (-)-gallocatechin directly inhibits HIV-1 reverse transcriptase and integrase, also upregulating expression of IL-2 and downregulating expression of IL-10 and TNF- α . (-)-Gallocatechin decreases osteoclastogenesis, inhibits osteoclast differentiation and resulting in a positive effect on bone metabolism. This compound also inhibits gram positive bacteria, preventing formation of *Streptococcus*-induced dental caries.



Bulk quantities available upon request

Product ID	Size
G0243	5 mg
G0243	10 mg
G0243	25 mg

References Tsujita T, Shintani T, Sato H. α -Amylase inhibitory activity from nut seed skin polyphenols. 1. Purification and characterization of almond seed skin polyphenols. *J Agric Food Chem.* 2013 May 15;61(19):4570-6. PMID: 23614772.

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