LKT Laboratories, Inc.

(−)-Gallocatechin

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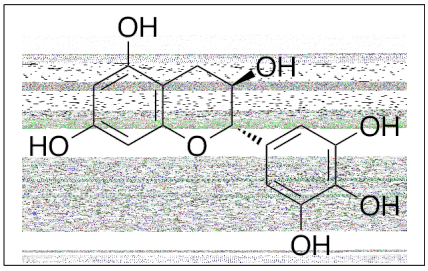
Product Information

Product ID G0243
CAS No. 3371-27-5
Chemical Name (2S,3R)-2-(3,4,5-trihydroxyphenyl)-3,4-dihydro-2H-chromene-3,5,7-triol
Synonym

Formula $C_{15}H_{14}O_7$
Formula Wt. 306.27
Melting Point 200°C
Purity ≥98%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
G0243	5 mg	$125.80
G0243	10 mg	$226.50
G0243	25 mg	$490.10

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.

References

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