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Product Information

Product ID T286163 CAS No. 30462-35-2

Chemical Name [(2R,3R)-2-[1-[(2R,3R)-5,7-Dihydroxy-3-(3,4,5-trihydroxybenzoyl)oxy

-3,4-dihydro-2H-chromen-2-yl]-3,4,5-trihydroxy-6-oxobenzo[7]annulen

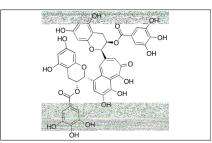
-8-yl]-5,7-dihydroxy-3,4-dihydro-2H-chromen-3-yl] 3,4,5-

Synonym Theaflavin digallate

Formula C₄₃H₃₂O₂₀ Formula Wt. 868.71 Melting Point 226-230°C dec

Purity ≥98%

Solubility 0.1 mg/mL water.



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
T286163	1 mg	\$202.90
T286163	5 mg	\$751.40

Store Temp 4°C Ship Temp Ambient

Description Theaflavin-3,3'-digallate is a polyphenolic compound found in black tea. The theaflavins are formed during the enzymatic oxidation of catechins, which happens during processing of the fresh tea leaves. Theaflavin-3,3'-digallate has also shown inhibitory effects on ovarian cancer cells OVCAR-3 and A2780/CP70 by inducing apoptosis and impairing tumor angiogenesis. In addition, theaflavin-3,3'-digallate was found to produce notably efficient reactive oxygen species scavenging activity by a chemiluminescence assay. Theaflavin-3,3'-digallate was also shown to produce chemopreventive effects through the inhibition of the EGFR signaling pathway as a result of EGFR down-regulation.

References Gao Y, Rankin GO, Tu Y, et al. Inhibitory effects of the four main theaflavin derivatives found in black tea on ovarian cancer cells. Anticancer Res. 2016 Feb;36(2):643-651. PMID: 26851019.

> Wu YY, Li W, Xu Y, et al. Evaluation of the antioxidant effects of four main theaflavin derivatives through chemiluminescence adn DNA damage analyses. J Zhejiang Univ Sci B. 2011 Sep;12(9):744-751. PMID: 21887850.

Mizuno H, Cho YY, Zhu F, et al. Theaflavin-3,-3'-digallate induces epidermal growth factor receptor downregulation. Mol Carcinog. 2006 Mar; 45(3): 204-212. PMID: 16353237.

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