

 Phone:
 888-558-5227

 651-644-8424

 Fax:
 888-558-7329

 Email:
 getinfo@lktlabs.com

 Web:
 lktlabs.com

## **Product Information**

Product ID T286163 CAS No. 30462-35-2 Chemical Name

Synonym Theaflavin digallate

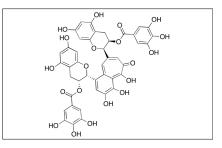
 Formula
 C43H32O20

 Formula Wt.
 868.71

 Melting Point
 226-230°C dec

 Purity
 ≥98%

 Solubility
 0.1 mg/mL water.



## Bulk quanitites available upon request

Product ID	Size
T286163	1 mg
T286163	5 mg

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.