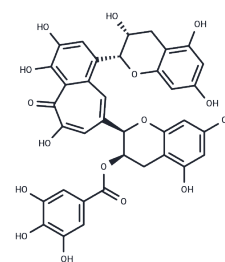


Theaflavin-3-gallate

Chemical Properties

CAS No. :	30462-34-1
Formula:	C ₃₆ H ₂₈ O ₁₆
Molecular Weight:	716.60
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Theaflavin-3-gallate (Theaflavine-3-Gallate) can play a role in decreased intestinal cholesterol absorption via inhibition of micelle formation. Theaflavin-3-gallate has anticancer and apoptotic effects in non-small cell lung carcinoma, it acts as prooxidants and induce oxidative stress, with carcinoma cells more sensitive than normal
Targets(IC50)	Apoptosis,ATM/ATR,Others,Chk,MDM-2/p53

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1 mg/mL (1.4 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3955 mL	6.9774 mL	13.9548 mL
5 mM	0.2791 mL	1.3955 mL	2.791 mL
10 mM	0.1395 mL	0.6977 mL	1.3955 mL
50 mM	0.0279 mL	0.1395 mL	0.2791 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Li D W , Meng L , Zhang K X , et al. Anticancer and apoptotic effects of theaflavin-3-gallate in non-small cell lung carcinoma[J]. Bangladesh Journal of Pharmacology, 2015, 10(4).
- Xiao Y, Cai G P, Feng X, et al. Splicing factor YBX1 regulates bone marrow stromal cell fate during aging. The EMBO Journal. 2023: e111762.
- Babich H, et al. Theaflavin-3-gallate and theaflavin-3'-gallate, polyphenols in black tea with prooxidant properties. Basic Clin Pharmacol Toxicol. 2008 Jul;103(1):66-74.

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