

Theaflavin-3'-gallate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Theaflavin-3'-gallate

Catalog No.: CFN98599

Cas No.: 28543-07-9

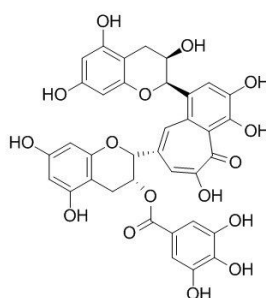
Purity: >=95%

M.F: C₃₆H₂₈O₁₆

M.W: 716.61

Physical Description: Powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The leaves of *Camellia sinensis* (L.) O. Kuntze.

[Biological Activity or Inhibitors]

Theaflavin-3'-gallate (TF-2B) and theaflavin-3-gallate (TF-2A), polyphenols in black tea,

they have antiproliferative and cytotoxic effects of the theaflavin monomers are more pronounced to the carcinoma than to the normal cells, their mode of toxicity may be due, in part, to the induction of oxidative stress. [1]

Theaflavins can play a role in decreased intestinal cholesterol absorption via inhibition of micelle formation.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-20 mM KH₂PO₄, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Harvey Babich, Reena T. Gottesman, Emily J. Liebling, *et al. Basic Clin.Pharmacol.*, 2008, 103(1):66-74.

[2] Vermeer M A, Mulder T P J, Molhuizen H O F. *J. Agr. Food Chem.*, 2008, 56(24): 12031-6.

[3] Friedman M, Kim S Y, Lee S J, *et al. J. Food Sci.*, 2005, 70(9):C550-9.

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