

Tea polyphenol

Chemical Properties

CAS No.:	84650-60-2
Formula:	C ₁₇ H ₁₉ N ₃ O
Molecular Weight:	281.36
Appearance:	Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Tea polyphenol, also called green tea extract, are a mixture of chemical compounds, such as flavanoids and tannins, found naturally in tea. Polyphenols are powerful antioxidants, which can reduce the risk of developing coronary artery disease and a number of other health problems. The compounds found in tea have also been linked with cancer reduction.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 91 mg/mL (323.4 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.554 mL	17.771 mL	35.542 mL
5 mM	0.711 mL	3.554 mL	7.108 mL
10 mM	0.355 mL	1.777 mL	3.554 mL
50 mM	0.071 mL	0.355 mL	0.711 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Baladia E, Basulto J, et al.[Effect of green tea or green tea extract consumption on body weight and body composition; systematic review and meta-analysis].Nutr Hosp. 2014 Mar 1;29(3):479-90.
2. Wang X , Tian J , Jiang J , et al. Effects of green tea or green tea extract on insulin sensitivity and glycaemic control in populations at risk of type 2 diabetes mellitus: a systematic review and meta-analysis of randomised controlled trials[J]. Journal of Human Nutrition and Dietetics, 2014, 27(5):501-512.
3. Li G , Zhang Y , Thabane L , et al. Effect of green tea supplementation on blood pressure among overweight and obese adults: a systematic review and meta-analysis.[J]. Journal of Hypertension, 2015, 33(2):243-254.
4. Green tea catechins and blood pressure: a systematic review and meta-analysis of randomised controlled trials[J]. European Journal of Nutrition, 2014, 53(6):1299-1311.
5. Jówko E. Green Tea Catechins and Sport Performance[M]// Antioxidants in Sport Nutrition. 2015.
6. Mao X, et al. Oxidative stress-induced diseases and tea polyphenols. Oncotarget. 2017 Sep 14;8(46):81649-81661.

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