

(+)-Catechin pentaacetate

Chemical Properties

CAS No. : 16198-01-9

Formula: C₂₅H₂₄O₁₁

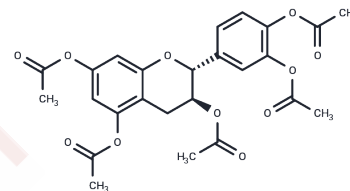
Molecular Weight: 500.45

Keep away from direct sunlight, Store at low temperature

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(+)-Catechin pentaacetate (Catechin pentaacetate) is an esterified derivative of catechin with the potential to improve intestinal morphology and function and positively modulate the microbiome, and reduce iron and zinc transport proteins in the duodenum.
Targets(IC50)	COX
In vitro	(+)-Catechin pentaacetate primarily exerts its anti-inflammatory, anti-diabetic, anti-cancer, neuroprotective, antibacterial, memory-enhancing, anti-arthritis, and hepatoprotective effects through modulating the activity of pathways such as NF-κB, Nrf-2, TLR4/NF-κB, COMT, and MAPKs[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9982 mL	9.991 mL	19.982 mL
5 mM	0.3996 mL	1.9982 mL	3.9964 mL
10 mM	0.1998 mL	0.9991 mL	1.9982 mL
50 mM	0.040 mL	0.1998 mL	0.3996 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

Veluri R, et al. Phytotoxic and antimicrobial activities of catechin derivatives. J Agric Food Chem. 2004 Mar 10;52(5): 1077-82.

Waffo-Téguo P, et al. Potential cancer-chemopreventive activities of wine stilbenoids and flavans extracted from grape (*Vitis vinifera*) cell cultures. Nutr Cancer. 2001;40(2):173-9.

Baranwal A, Aggarwal P, Rai A, Kumar N. Pharmacological Actions and Underlying Mechanisms of Catechin: A Review. Mini Rev Med Chem. 2022;22(5):821-833.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481