

EGCG Octaacetate

Chemical Properties

CAS No. : 148707-39-5

Formula: C₃₈H₃₄O₁₉

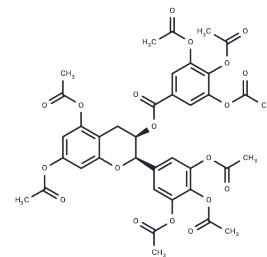
Molecular Weight: 794.67

Storage:

Keep away from direct sunlight, Keep away from moisture

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	EGCG Octaacetate, a prodrug of EGCG, is utilized to enhance the stability and bioavailability of EGCG in vivo. It has high efficacy, bioavailability, anti-oxidation, and anti-angiogenesis capacities.
Targets(IC50)	NF-κB, Akt, Antibacterial, PI3K

Solubility Information

Solubility	DMSO: 125 mg/mL (157.3 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (2.52 mM), Sonication is recommended. 10% DMSO+90% Saline: < 10 mg/mL (12.58 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (12.58 mM), Solution. <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	1.2584 mL	6.2919 mL	12.5838 mL
5 mM	0.2517 mL	1.2584 mL	2.5168 mL
10 mM	0.1258 mL	0.6292 mL	1.2584 mL
50 mM	0.0252 mL	0.1258 mL	0.2517 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

Wang CC, et al. Prodrug of green tea epigallocatechin-3-gallate (Pro-EGCG) as a potent anti-angiogenesis agent for endometriosis in mice. *Angiogenesis*. 2013 Jan;16(1):59-69.

Kalaiselvilgnasimuthu, et al. Enhanced bioaccessibility of green tea polyphenols and lipophilic activity of EGCG octaacetate on gram-negative bacteria. *Volume 105, May 2019, Pages 103-109.*

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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