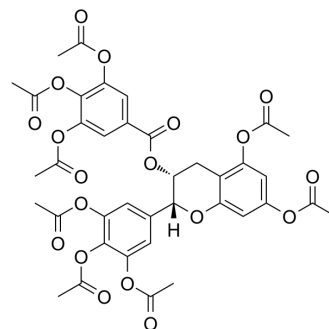


## EGCG Octaacetate

Cat. No.:	HY-N6263
CAS No.:	148707-39-5
Molecular Formula:	C <sub>38</sub> H <sub>34</sub> O <sub>19</sub>
Molecular Weight:	794.67
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (125.84 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			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			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.15 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	EGCG Octaacetate (AcEGCG) is a prodrug of Green tea epigallocatechin-3-gallate (EGCG). EGCG Octaacetate decreases the proinflammatory mediator levels by down-regulating of PI3K/Akt/NFκB phosphorylation and p65 acetylation. EGCG Octaacetate reduces colitis-driven colon cancer in mice. EGCG octaacetate is the potential antibacterial compound for gram-positive bacteria (GPB) and gram-negative bacteria (GNB) <sup>[1][2][3]</sup> .
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### REFERENCES

- [1]. 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.
- [2]. 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.

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[3]. Yi-Shiou Chiou, et al. Peracetylated (-)-epigallocatechin-3-gallate (AcEGCG) potently suppresses dextran sulfate sodium-induced colitis and colon tumorigenesis in mice. J Agric Food Chem. 2012 Apr 4;60(13):3441-51.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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