

## Octyl gallate

## Chemical Properties

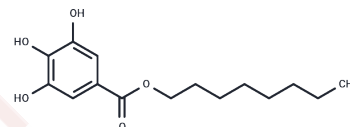
CAS No. : 1034-01-1

Formula: C<sub>15</sub>H<sub>22</sub>O<sub>5</sub>

Molecular Weight: 282.33

Appearance: no data available

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



## Biological Description

Description	1. Octyl Gallate is an antioxidant approved by the US Food and Drug Administration (FDA) as a food additive. 2. Octyl Gallate has antimetastatic activity. 3. Octyl Gallate shows antimicrobial activity against <i>H. pylori</i> , with a minimum inhibitory concentration (MIC) value of 125 ug/mL. 4. Combination therapy with octyl gallate and ferulic acid improves cognition and neurodegeneration in a transgenic mouse model of Alzheimer's disease. 5. Octyl Gallate is a potential anticancer agent, it exhibited decreased MCF-7 & MDA-MB-231 survival and induced apoptosis, with IC <sub>50</sub> value of 40 uM. 6. Octyl gallate (Octyl 3,4,5-trihydroxybenzoate) has antiviral activity, it shows an inhibitory effect on the growth of herpes simplex virus type 1 (HSV-1) in HEp-2 or Vero cells. 7. Octyl gallate shows antifungal activity against <i>Saccharomyces cerevisiae</i> ATCC7754 and <i>Zygosaccharomyces bailii</i> ATCC 60483.
Targets(IC <sub>50</sub> )	Antioxidant, Reactive Oxygen Species, Antibacterial, Antifungal, HSV, Influenza Virus

## Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 60 mg/mL (212.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.542 mL	17.7098 mL	35.4195 mL
5 mM	0.7084 mL	3.542 mL	7.0839 mL
10 mM	0.3542 mL	1.771 mL	3.542 mL
50 mM	0.0708 mL	0.3542 mL	0.7084 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.

Reference

Sales, SM , Roy, A , Antony, L , et al. Octyl gallate and gallic acid isolated from, Terminalia bellarica, regulates normal cell cycle in human breast cancer cell lines[J]. Biomedicine & Pharmacotherapy, 2018, 103:1577-1584.

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