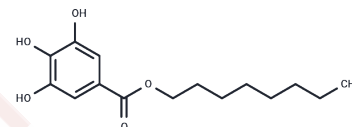


## Octyl gallate

## Chemical Properties

CAS No. :	1034-01-1
Formula:	C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>
Molecular Weight:	282.33
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	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 H. pylori, 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 Saccharomyces cerevisiae ATCC7754 and Zygosaccharomyces bailii ATCC 60483.
Targets(IC <sub>50</sub> )	Antioxidant, Reactive Oxygen Species, Antibacterial, Antifungal, HSV, Influenza Virus, ROS

## Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 245 mg/mL (867.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	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

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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

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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