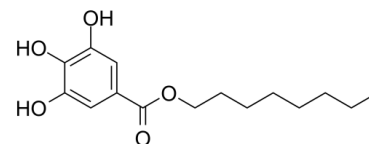


## Data Sheet

<b>Product Name:</b>	Octyl gallate
<b>Cat. No.:</b>	CS-0018331
<b>CAS No.:</b>	1034-01-1
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	282.33
<b>Target:</b>	Bacterial; Reactive Oxygen Species
<b>Pathway:</b>	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
<b>Solubility:</b>	DMSO : 125 mg/mL (442.74 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

Octyl gallate (Progallin O) is widely used as a food additive, with antimicrobial and antioxidant activity<sup>[1][2]</sup>. Octyl gallate (Progallin O) shows selective and sensitive fluorescent property<sup>[2]</sup>. **In Vitro:** Octyl gallate has antimicrobial activity over *H. pylori*, with a minimum inhibitory concentration (MIC) value of 125 µg/mL<sup>[1]</sup>.

### References:

- [1]. Wolf VG, et al. Octyl gallate, a food additive with potential beneficial properties to treat *Helicobacter pylori* infection. *Food Funct.* 2017 Jul 19;8(7):2500-2511.
- [2]. Wang Q, et al. Octyl gallate: An antioxidant demonstrating selective and sensitive fluorescent property. *Food Chem.* 2017 Mar 15;219:268-273.

### CAIndexNames:

Benzoic acid, 3,4,5-trihydroxy-, octyl ester

### SMILES:

O=C(OCCCCCCC)C1=CC(O)=C(O)C(O)=C1

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

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