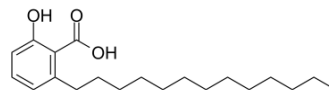


## Ginkgolic Acid (C13:0)

Cat. No.:	HY-N0078
CAS No.:	20261-38-5
Molecular Formula:	C <sub>20</sub> H <sub>32</sub> O <sub>3</sub>
Molecular Weight:	320.47
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 (312.04 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.1204 mL	15.6021 mL	31.2042 mL
				5 mM	0.6241 mL	3.1204 mL	6.2408 mL
				10 mM	0.3120 mL	1.5602 mL	3.1204 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 (7.80 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	<p>Ginkgolic Acid (C13:0) is a natural anticarcinogenic agent in that it exhibits antimicrobial activity against <i>S. mutans</i> and suppresses the specific virulence factors associated with its cariogenicity. IC<sub>50</sub> value: Inhibiting the biofilm formation of <i>S. mutans</i> (MBIC (50) = 4 µg/mL); reduced 1-day-developed biofilm of <i>S. mutans</i> by 50 % or more at low concentration (MBRC (50) = 32 µg/mL). Target: In vitro: Ginkgolic Acid (C13:0) inhibited not only the growth of <i>S. mutans</i> planktonic cells at minimum inhibitory concentration (MIC) of 4 µg/mL and minimum bactericidal concentration (MBC) of 8 µg/mL but also the acid production and adherence to saliva-coated hydroxyapatite of <i>S. mutans</i> at sub-MIC concentration. In addition, this agent was effective in inhibiting the biofilm formation of <i>S. mutans</i> (MBIC (50) = 4 µg/mL), and it reduced 1-day-developed biofilm of <i>S. mutans</i> by 50 % or more at low concentration (MBRC (50) = 32 µg/mL). Furthermore Ginkgolic Acid (C13:0) disrupted biofilm integrity effectively [1]. In vivo:</p>
-------------	--

### REFERENCES

---

[1]. He J, et al. Effects of ginkgoneolic acid on the growth, acidogenicity, adherence, and biofilm of *Streptococcus mutans* in vitro. *Folia Microbiol (Praha)*. 2013 Mar;58(2):147-53.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA