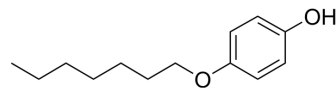


## 4-Heptyloxyphenol

<b>Cat. No.:</b>	HY-30263		
<b>CAS No.:</b>	13037-86-0		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>20</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	208.3		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (480.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.8008 mL	24.0038 mL	48.0077 mL
		5 mM	0.9602 mL	4.8008 mL	9.6015 mL
10 mM		0.4801 mL	2.4004 mL	4.8008 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.00 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Heptyloxyphenol (p-(heptyloxy)phenol) has antibacterial activity against <i>P. gingivalis</i> , <i>S. artemidis</i> , <i>Str. sobrinus</i> (MIC: 0.10, 0.21, 0.14 mM) <sup>[1]</sup> .
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### REFERENCES

[1]. Stuart Shapiro, et al. Inhibition of Oral Bacteria by Phenolic Compounds. Part 1. QSAR Analysis using Molecular Connectivity. Molecular informatics. Volume17, Issue04. August 1998. Pages 327-337.

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

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