4-Heptyloxyphenol

Cat. No.: HY-30263

CAS No.: 13037-86-0

Molecular Formula: $C_{13}H_{20}O_2$

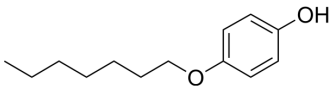
Molecular Weight: 208.3

Target: Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (480.08 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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.

In Vivo

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

Description

4-Heptyloxyphenol (p-(heptyloxy)phenol) has antibacterial activity agaisnt P. gingivalis, S. artemidis, Str. sobrinus (MIC: 0.10, 0.21, 0.14 mM)[1].

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.

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

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