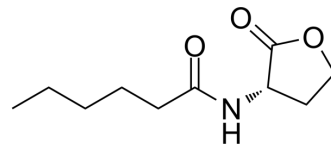


## N-Hexanoyl-L-homoserine lactone

<b>Cat. No.:</b>	HY-133685		
<b>CAS No.:</b>	147852-83-3		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>17</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	199.25		
<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

#### In Vitro

DMSO : 100 mg/mL (501.88 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.0188 mL	25.0941 mL	50.1882 mL
	5 mM	1.0038 mL	5.0188 mL	10.0376 mL
	10 mM	0.5019 mL	2.5094 mL	5.0188 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

N-Hexanoyl-L-homoserine lactone is a short-chained N-acyl homoserine lactone (AHL). Diatoms are frequently found in association with Proteobacteria, many members of which employ cell-to-cell communication via AHLs in aquatic habitats<sup>[1]</sup>.

### REFERENCES

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

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