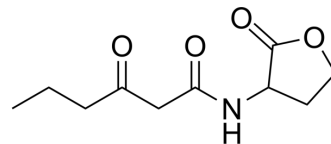


N-(Ketocaproyl)-DL-homoserine lactone

Cat. No.:	HY-129405		
CAS No.:	76924-95-3		
Molecular Formula:	C ₁₀ H ₁₅ NO ₄		
Molecular Weight:	213.23		
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

H₂O : 250 mg/mL (1172.44 mM; Need ultrasonic)
 DMSO : 100 mg/mL (468.98 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.6898 mL	23.4489 mL	46.8977 mL
	5 mM	0.9380 mL	4.6898 mL	9.3795 mL
	10 mM	0.4690 mL	2.3449 mL	4.6898 mL

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

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 50 mg/mL (234.49 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

N-(Ketocaproyl)-DL-homoserine lactone is a natural, very active ligand of LuxR. N-(Ketocaproyl)-DL-homoserine lactone is a quorum sensing (QS) autoinducer^[1].

In Vitro

N-(Ketocaproyl)-DL-homoserine lactone is a natural ligand of *Vibrio fischeri* as L and D isomers^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li SZ, et al. Influence of the d/l configuration of N-acyl-homoserine lactones (AHLs) and analogues on their Lux-R dependent quorum sensing activity. *Bioorg Chem.*

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

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