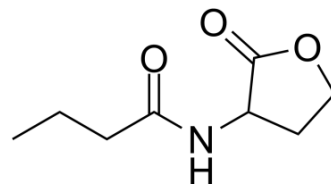


## N-Butanoyl-DL-homoserine lactone

Cat. No.:	HY-113764
CAS No.:	98426-48-3
Molecular Formula:	C <sub>8</sub> H <sub>13</sub> NO <sub>3</sub>
Molecular Weight:	171.19
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

N-Butanoyl-DL-homoserine lactone ((Rac)-C4-HSL) is a racemic mixture of N-Butanoyl-D-homoserine lactone and N-Butanoyl-L-homoserine lactone. N-Butanoyl-L-homoserine lactone is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). N-Butanoyl-L-homoserine lactone has antibacterial activity and is used in antibacterial biofilm. N-Butanoyl-L-homoserine lactone aptamers blocks quorum sensing and inhibits biofilm formation in *Pseudomonas aeruginosa*<sup>[1][2]</sup>.

### REFERENCES

[1]. Zhao M, et al. C4-HSL aptamers for blocking quorum sensing and inhibiting biofilm formation in *Pseudomonas aeruginosa* and its structure prediction and analysis. PLoS One. 2019 Feb 19;14(2):e0212041.

[2]. Keith Alan Charlton, et al. Methods for the Treatment of an Infectious Bacterial Disease with an Anti-Lactone or Lactone Derived Signal Molecules Antibody. US20130045208A1

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

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