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**Product Data Sheet**

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Product Name: N-Butyryl-DL-homocysteine thiolactone

Cat. No.: GC66498

**Chemical Properties**

Cas. No. 39837-08-6

Formula  $C_8H_{13}NO_2S$  M.Wt 187.26Solubility Storage Store at  $-20^{\circ}C$ 

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

N-Butyryl-DL-homocysteine thiolactone is an N-acyl homoserine lactone (AHL) analogue. AHLs are potent inhibitors of biofilm formation and virulence factors, and has been used for degrading microbial communities, reducing bacterial pathogenicity<sup>[1][2]</sup>.

[1]. Khalilzadeh P, et al. Growth inhibition of adherent *Pseudomonas aeruginosa* by an N-butanoyl-L-homoserine lactone analog. *Can J Microbiol.* 2010 Apr;56(4):317-25.

[2]. Iyer R, et al. Synthetic analogs of bacterial quorum sensors: US, US20110053890[P]. 2011-03-03.

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

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