

\$luxS life\$ S ribosylhomocysteine lyase Wikipedia Role of the luxS Quorum Sensing System in Biofilm Formation and.

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The systematic name of this enzyme class is S 5 deoxy D ribos 5 yl L homocysteine L homocysteine lyase [4S 4 5 dihydroxypentan 2 3 dione forming]. Other names in common use include S ribosylhomocysteinase and LuxS

This enzyme participates in methionine metabolism. Here we describe luxS a quorum sensing system in staphylococci that has a significant impact on biofilm development and virulence. We constructed an isogenic luxS mutant strain of a biofilm forming clinical isolate of *S*

epidermidis and demonstrated that luxS signaling is functional in *S*

epidermidis May 1 2005. Here we discuss the influence that LuxS and its product autoinducer 2 have on virulence relating the current evidence to the preferred niche of the pathogen and the underlying mechanisms. Apr 1 2003 Quorum sensing is a process of bacterial cell to cell communication involving the production and detection of extracellular signaling molecules called autoinducers

Quorum sensing allows populations of bacteria to collectively control gene expression and thus synchronize group behavior. Mar 30 2018 Quorum sensing QS is a communication mechanism based on the production of autoinducers in order to regulate cooperative behavior and physiological traits among bacteria

Autoinducer 2 AI 2 is mediated by luxS and pfs genes and is used for both intra and interspecies communication. LuxS is the synthase that catalyzes formation of AI 2 by cleavage of S ribosylhomocysteine [Schäuder01]. LuxS also participates in recycling of S adenosylhomocysteine via the S adenosyl L methionine salvage I [Winzer02] Oct 12 2018 Here we predicted the structure of A

hydrophila LuxS and characterized it structurally and functionally with in silico methods. S ribosylhomocysteine lyase also known as LuxS is an enzyme encoded by the LuxS gene in *Escherichia coli* that is responsible for the synthesis of AI 2 signaling molecules

Inhibition of this enzyme can block quorum sensing in *E. coli* Aug 31 2022. The LuxS enzyme plays a key role in both quorum sensing QS and the regulation of bacterial growth

It catalyzes the production of autoinducer 2 AI 2 signaling molecule which is a component of the methyl cycle and methionine metabolism. The meaning of LuxS is a unit of illumination equal to the direct illumination on a surface that is everywhere one meter from a uniform point source of one candle intensity or equal to one lumen per square meter.

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