

LuxS Protein, E. coli, Recombinant (His)

General Information

Synonyms:	luxS;S-ribosylhomocysteine lyase;Autoinducer-2 production protein LuxS;ygaG;AI-2 synthesis protein
Protein Construction:	2-171 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P45578
Molecular Weight:	23.3 kDa (predicted)
AA Sequence:	PLLDSTVDHTRMEAPAVRVAKTMNTPHGDITVFDLRFVCPNKEVMPERGIHTLEHLFAGFMRNHLNGNGV EIIDISPMGCRTGFYMSLIGTPDEQRVADAWKAAMEDVLKVQDQNPQIPELNQVYQCGTYQMHSLQEAQDIARS ILERDVRINSNEELALPKEKLQELHI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Involved in the synthesis of autoinducer 2 (AI-2) which is secreted by bacteria and is used to communicate both the cell density and the metabolic potential of the environment. The regulation of gene expression in response to changes in cell density is called quorum sensing. Catalyzes the transformation of S-ribosylhomocysteine (RHC) to homocysteine (HC) and 4,5-dihydroxy-2,3-pentadione (DPD).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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