

## LuxS Protein, E. coli, Recombinant (His & Myc)

### General Information

Synonyms:	luxS;Autoinducer-2 production protein LuxS;AI-2 synthesis protein;S-ribosylhomocysteine lyase
Protein Construction:	1-171 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	C4ZYT7
Molecular Weight:	26.9 kDa (predicted)
AA Sequence:	MPLLDSTVDHTRMEAPAVRVAKTMNTPHGDITVFDLRFVCPNKEVMPERGIHTLEHLFAGFMRNHLNGN GVEIIDISPMGCRTGFYMSLIGTPDEQRVADAWKAAMEDVLKVQDQONQIPELNVYQCGTYQMHSLQEAQDI ARSILERDVRINSNEELALPKEKLQELHI

### 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/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
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. <small>Actual storage temperature shall be subject to the COA.</small>
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

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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).

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