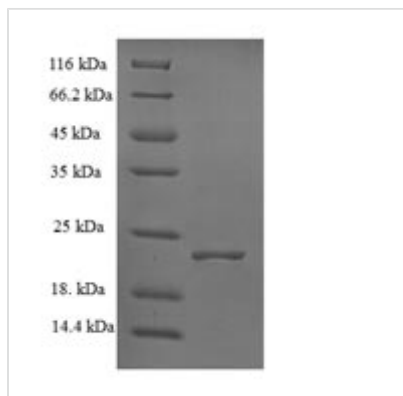




# Recombinant Escherichia coli S-ribosylhomocysteine lyase (luxS)

<b>Product Code</b>	CSB-EP541717ENT
<b>Relevance</b>	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).
<b>Abbreviation</b>	Recombinant E.coli luxS protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P45578
<b>Alias</b>	AI-2 synthesis protein;Autoinducer-2 production protein LuxS
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Escherichia coli (strain K12)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	<pre> PLLDSFTVDHTRMEAPAVRVAKTMNTPHGDITVFDLRFVCPNKEVMPERGIH TLEHLFAGFMRNHLNGNGVEIIDISPMGCRTGFYMSLIGTPDEQRVADAWKAA MEDVLKVQDQNPQIPELNVYQCGTYQMHSLLQEAQDIARSILERDVRINSNEELA LPKEKLQELHI </pre>
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	luxS
<b>Protein Names</b>	AI-2 synthesis protein;Autoinducer-2 production protein LuxS
<b>Expression Region</b>	2-171aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	23.3 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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