

Recombinant Escherichia coli LUXS Protein (2-171 aa), His-tagged

Cat. No. LUXS-2360E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) LUXS Protein (2-171 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	E.coli
Source	E.coli
ProteinLength	2-171 aa
Description	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).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	23.3 kDa
AA Sequence	PLLDSTVDHTRMEAPAVRVAKTMNTPHGDAITVFDLRFCVPNKEVMPERGIHTLEH LFAGFMRNHLNGNGVEIIDISPMGCRTGFYMSLIGTPDEQRVADAWKAAMEDVLKV QDQNPQIPELNVYQCGTYQMHSLEQAQDIARSILERDVRINSNEELALPKEKLQELHI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

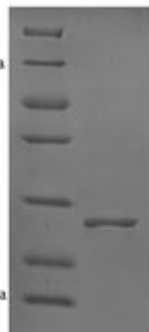
Gene Name	luxS S-ribosylhomocysteine lyase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	LUXS
Synonyms	luxS; ECK2681; ygaG;
Gene ID	947168
Protein Refseq	NP_417172
UniProt ID	P45578

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116 kDa
66.2 kDa
45 kDa
35 kDa
25 kDa
18. kDa
14.4 kDa



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

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