S-Ribosylhomocysteine Lyase (luxS) Shigella Boydii Serotype 4 Recombinant Protein

PRODUCT OVERVIEW

Product Name	S-ribosylhomocysteine lyase (luxS), Recombinant Protein
Full Product Name	Recombinant Shigella boydii serotype 4 S-ribosylhomocysteine lyase (luxS)
Product Gene Name	luxS recombinant protein
Product Synonym Gene Name	luxS
Sequence	MPLLDSFTVD HTRMEAPAVR VAKTMNTPHG DAITVFDLRF CVPNKEVMPE RGSHTLEHLF AGFMRNHLNG NGVEIIDISP MGCRTGFYMS LIGTPDEQRV ADAWKAAMED VLKVQDQNQI PELNVYQCGT YQMHSLQEAQ DIARSILERD VRINSNEELA LPKEKLQELH I
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	19,390 Da
Sequence Positions	1-171, Full length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q31X57
Species	Shigella boydii serotype 4 (strain Sb227)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for luxS recombinant protein	MBS1462474 is a recombinant protein targeting luxS. Also known as Recombinant Shigella boydii serotype 4 S-ribosylhomocysteine lyase (luxS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of luxS recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for luxS. It may not necessarily be applicable to this product.

NCBI GI #	447052960
NCBI Accession #	WP_001130216.1
UniProt Primary Accession #	Q31X57
GenBank Nucleotide #	WP_001130216.1
NCBI Official Full Name	MULTISPECIES: S-ribosylhomocysteine lyase
UniProt Protein Name	S-ribosylhomocysteine lyase

UniProt Synonym Protein Names	AI-2 synthesis protein
Protein Family	S-ribosylhomocysteine lyase
UniProt Gene Name	luxS
UniProt Comments for luxS	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).
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