Autoinducer 2 Kinase Lsrk (lsrK) Yersinia Pestis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Autoinducer 2 kinase LsrK (lsrK), Recombinant Protein
Full Product Name	Recombinant Yersinia pestis Autoinducer 2 kinase LsrK (lsrK), partial
Product Gene Name	lsrK recombinant protein
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	56,995 Da
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 A4TQL2
Species	Yersinia pestis (strain Pestoides F)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lsrK recombinant protein	MBS1251272 is a recombinant protein targeting lsrK. Also known as Recombinant Yersinia pestis Autoinducer 2 kinase LsrK (lsrK), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lsrK 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 lsrK. It may not necessarily be applicable to this product.

NCBI GI #	488159335
NCBI Accession #	WP_002230543.1
UniProt Primary Accession #	A4TQL2
GenBank Nucleotide #	WP_002230543.1
NCBI Official Full Name	MULTISPECIES: autoinducer-2 kinase
UniProt Protein Name	Autoinducer-2 kinase
Protein Family	Autoinducer-2 kinase
UniProt Gene Name	lsrK
UniProt Synonym Gene Names	AI-2 kinase

UniProt Comments for lsrK	Catalyzes the phosphorylation of autoinducer-2 (AI-2) to phospho-AI-2, which subsequently inactivates the transcriptional regulator LsrR and leads to the transcription of the lsr operon. Phosphorylates the ring-open form of (S)-4,5-dihydroxypentane-2,3-dione (DPD), which is the precursor to all AI-2 signaling molecules, at the C5 position.
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