Osmotically-Inducible Lipoprotein B (osmB) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Osmotically-inducible lipoprotein B (osmB), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Osmotically-inducible lipoprotein B (osmB)
Product Gene Name	osmB recombinant protein
Sequence	CSNWSKRDRN TAIGAGAGAL GGAVLTDGST LGTLGGAAVG GVIGHQVGK
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	6,948 Da
Sequence Positions	24-72, full length protein
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 P0ADA7
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for osmB recombinant protein	MBS1129190 is a recombinant protein targeting osmB. Also known as Recombinant Escherichia coli Osmotically-inducible lipoprotein B (osmB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of osmB 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 osmB. It may not necessarily be applicable to this product.

NCBI GI #	16129244
NCBI GeneID	945866
NCBI Accession #	NP_415799.1
UniProt Primary Accession #	P0ADA7
UniProt Secondary Accession #	P17873
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	osmotically and stress inducible lipoprotein
NCBI Official Symbol	osmB

NCBI Official Synonym Symbols	ECK1278; JW1275
UniProt Protein Name	Osmotically-inducible lipoprotein B
Protein Family	Osmotically-inducible lipoprotein
UniProt Gene Name	osmB
NCBI Protein Information	osmotically and stress inducible lipoprotein
NCBI Summary for osmB	First 23 aa are a type II signal peptide. [More information is available at EcoGene: EG10679]. The osmB gene of Escherichia coli has been shown to be inducible by both osmotic stress and growth phase signals . [More information is available at EcoCyc: EG10679].
UniProt Comments for osmB	Provides resistance to osmotic stress. May be important for stationary-phase survival.
Research Articles on osmB	**1.** osmB appears as another example of a multistress-responsive gene whose transcription involves both a sigma(S)-dependent promoter and a second one independent of sigma(S) but controlled by stress-specific transcription factors.
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