Sensor Protein FixI (fixL) Rhizobium Meliloti Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sensor protein fixL (fixL), Recombinant Protein
Full Product Name	Recombinant Rhizobium meliloti Sensor protein fixL (fixL)
Product Gene Name	fixL recombinant protein
Product Synonym Gene Name	fixL
Product Synonym Names	Recombinant Sensor protein fixL (fixL); Sensor protein fixL EC= 2.7.13.3
Sequence	MLSKSGIERT QWGRRVVRWR GDGVAAYIVA AIVTSSVLAI RMIRAEPIGE GLLLFSFIPA ILVVALIGGR NPILFAAGLS LVAAVSHQQI SSADGPSVVE LLVFGSAVLL IVALGEVLEA ARRAIDRTED VVRARDAHLR SILDTVPDAT VVSATDGTIV SFNAAAVRQF GYAEEEVIGQ NLRILMPEPY RHEHDGYLQR YMATGEKRII GIDRVVSGQR KDGSTFPMKL AVGEMRSGGE RFFTGFIRDL TEREESAARL EQIQAELARL ARLNEMGEMA STLAHELNQP LSAIANYSHG CTRLLRDMDD AVATRIREAL EEVASQSLRA GQIIKHLREF VTKGETEKAP EDIRKLVEES AALALVGSRE QGVRTVFEYL PGAEMVLVDR IQVQQVLINL MRNAIEAMRH VDRRELTIRT MPADPGEVAV VVEDTGGGIP EEVAGQLFKP FVTTKASGMG IGLSISKRIV EAHGGEMTVS KNEAGGATFR FTLPAYLDER IVAND
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	55,073 Da
Sequence Positions	1-505
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.
Chromosome Location	NC_003037.1 (673381..674898, complement). Location: plasmid: pSymA
3D Structure	ModBase 3D Structure for P10955
Species	Rhizobium meliloti (strain 1021) (Ensifer meliloti) (Sinorhizobium meliloti)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fixL recombinant protein	MBS1055728 is a recombinant protein targeting fixL. Also known as Recombinant Rhizobium meliloti Sensor protein fixL (fixL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fixL 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 fixL. It may not necessarily be applicable to this product.

NCBI GI #	16263123
NCBI GeneID	1235706

NCBI Accession #	NP_435916.1
UniProt Primary Accession #	P10955
UniProt Related Accession #	P10955
GenBank Nucleotide #	NC_003037.1
NCBI Official Full Name	FixL oxygen regulated histidine kinase
NCBI Official Symbol	fixL
UniProt Protein Name	Sensor protein FixL
Protein Family	Sensor protein
UniProt Gene Name	fixL
UniProt Entry Name	FIXL_RHIME
NCBI Protein Information	FixL oxygen regulated histidine kinase
UniProt Comments for fixL	Function: Putative oxygen sensor; modulates the activity of FixJ, a transcriptional activator of nitrogen fixation fixK gene. FixL probably acts as a kinase that phosphorylates FixJ. Catalytic activity: ATP + protein L-histidine = ADP + protein N-phospho-L-histidine. Cofactor: Binds 1 heme group per subunit. Enzyme regulation: The heme moiety regulates the kinase activity. Subcellular location: Cell inner membrane; Multi-pass membrane protein. Sequence similarities: Contains 1 histidine kinase domain.Contains 1 PAC (PAS-associated C-terminal) domain.Contains 1 PAS (PER-ARNT-SIM) domain.
Research Articles on fixL	**1.** Time-resolved resonance Raman spectra of Sinorhizobium meliloti FixL upon oxygen dissociation, as well as upon carbon monoxide dissociation, show that there are three steps in the dynamic structural changes that result from ligand dissociation.
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