Nitrogenase Iron Protein 4 (nifH4) Clostridium Pasteurianum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nitrogenase iron protein 4 (nifH4), Recombinant Protein
Full Product Name	Recombinant Clostridium pasteurianum Nitrogenase iron protein 4 (nifH4)
Product Gene Name	nifH4 recombinant protein
Sequence	MRQVAIYGKG GIGKSTTTQN LTAGLAERGN KIMVVGCDPK ADSTRLLLGG LAQKSVLDTL REEGEDVELD SILKEGFGGI RCVESGGPEP GVGCAGRGII TSINMLEQLG AYTDDLDYVF YDVLGDVVCG GFAMPIREGK AQEIYIVASG EMMALYAANN ISKGIQKYAK SGGVRLGGII CNSRKVANEY ELLDAFAKEL GSQLIHFVPR SPMVTKAEIN KKTVIDFDPK SEQADEYREL ARKIDENELF VIPKPMTQER LEEILVQYGL NDL
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	29,650 Da
Sequence Positions	1-273, 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 P22548
Species	Clostridium pasteurianum
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nifH4 recombinant protein	MBS1135046 is a recombinant protein targeting nifH4. Also known as Recombinant Clostridium pasteurianum Nitrogenase iron protein 4 (nifH4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nifH4 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 nifH4. It may not necessarily be applicable to this product.

NCBI GI #	489541798
NCBI Accession #	WP_003446488.1
UniProt Primary Accession #	P22548
GenBank Nucleotide #	WP_003446488.1
NCBI Official Full Name	nitrogenase iron protein 4
UniProt Protein Name	Nitrogenase iron protein 4

UniProt Synonym Protein Names	Nitrogenase Fe protein 4; Nitrogenase component II; Nitrogenase reductase
Protein Family	Nitrogenase iron protein
UniProt Gene Name	nifH4
UniProt Comments for nifH4	The key enzymatic reactions in nitrogen fixation are catalyzed by the nitrogenase complex, which has 2 components: the iron protein and the molybdenum-iron protein.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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