Nitrogenase Iron-Iron Protein Beta Chain (anfK) Clostridium Hungatei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nitrogenase iron-iron protein beta chain (anfK), Recombinant Protein
Full Product Name	Recombinant Clostridium hungatei Nitrogenase iron-iron protein beta chain (anfK)
Product Gene Name	anfK recombinant protein
Product Synonym Gene Name	anfK
Sequence	MTCEVKEKGR VGTINPIFTC QPAGAQFVSI GIKDCIGIVH GGQGCVMFVR LIFSQHYKES FELASSSLHE DGAVFGPCGR VEEAVDVLLS RYPDVKVVPI ITTCSTEIIG DDVDGVIKKL NEGLLKEKFP DREVHLIAMH TPSFVGSMIS GYDVAVRDVV RHFAKREAPN DKINLLTGWV NPGDVKELKH LLGEMDIEAN VLFEIESFDS PHSADGSLVS HGNTHHRGSD RHRQCPTFPE PLRRHQGRRV SAEEIRRSRR SSARPRSHPQ YRHLPAEPEE GDGKPIPQSL AHERGVAIDA LADLTHMFLA EKRVAIYGAP DLVIGLAEF
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	36,373 Da
Sequence Positions	1-329, 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 Q46084
Species	Clostridium hungatei
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anfK recombinant protein	MBS1342644 is a recombinant protein targeting anfK. Also known as Recombinant Clostridium hungatei Nitrogenase iron-iron protein beta chain (anfK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of anfK 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 anfK. It may not necessarily be applicable to this product.

NCBI GI #	5902784
NCBI Accession #	Q46084.1
UniProt Primary Accession #	Q46084
NCBI Official Full Name	Nitrogenase iron-iron protein beta chain
UniProt Protein Name	Nitrogenase iron-iron protein beta chain

UniProt Synonym Protein Names	Dinitrogenase 3 subunit beta; Nitrogenase component I
Protein Family	Nitrogenase iron-iron protein
UniProt Gene Name	anfK
UniProt Comments for anfK	This iron-iron protein is part of the nitrogenase complex that catalyzes the key enzymatic reactions in nitrogen fixation. Other nitrogenase complexes utilize a molybdenum-iron protein or a vanadium-iron protein.
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