ADP-Dependent (S)-NAD (P)h-Hydrate Dehydratase (nnrD) Bacillus Subtilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	ADP-dependent (S)-NAD (P)H-hydrate dehydratase (nnrD), Recombinant Protein
Full Product Name	Recombinant Bacillus subtilis ADP-dependent (S)-NAD (P)H-hydrate dehydratase
Product Gene Name	nnrD recombinant protein
Sequence	MNVPFWTEEH VRATLPERDA ESHKGTYGTA LLLAGSDDMP GAALLAGLGA MRSGLGKLVI GTSENVIPLI VPVLPEATYW RDGWKKAADA QLEETYRAIA IGPGLPQTES VQQAVDHVLT ADCPVILDAG ALAKRTYPKR EGPVILTPHP GEFFRMTGVP VNELQKKRAE YAKEWAAQLQ TVIVLKGNQT VIAFPDGDCW LNPTGNGALA KGGTGDTLTG MILGMLCCHE DPKHAVLNAV YLHGACAELW TDEHSAHTLL AHELSDILPR VWKRFE
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	29,870 Da
Sequence Positions	1-276, 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 P94368
Species	Bacillus subtilis (strain 168)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nnrD recombinant protein	MBS1150737 is a recombinant protein targeting nnrD. Also known as Recombinant Bacillus subtilis ADP-dependent (S)-NAD (P)H-hydrate dehydratase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nnrD 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 nnrD. It may not necessarily be applicable to this product.

NCBI GI #	16080923
NCBI GeneID	937408
NCBI Accession #	NP_391751.1
UniProt Primary Accession #	P94368
UniProt Related Accession #	P94368

GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	adp-dependent (S)-NAD(P)H-hydrate dehydratase
NCBI Official Symbol	yxkO
UniProt Protein Name	ADP-dependent (S)-NAD(P)H-hydrate dehydratase
UniProt Synonym Protein Names	ADP-dependent NAD(P)HX dehydratase
Protein Family	ADP-dependent
UniProt Gene Name	nnrD
NCBI Protein Information	ADP-dependent (S)-NAD(P)H-hydrate dehydratase
UniProt Comments for nnrD	Catalyzes the dehydration of the S-form of NAD(P)HX at the expense of ADP, which is converted to AMP. Together with NAD(P)HX epimerase, which catalyzes the epimerization of the S- and R-forms, the enzyme allows the repair of both epimers of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration.
Research Articles on nnrD	**1.** yxkO is a stress response and metabolic repair enzyme.
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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