ADP-Dependent (S)-NAD (P)h-Hydrate Dehydratase (nnrD) Listeria Monocytogenes Serovar 1/2a Recombinant Protein

PRODUCT OVERVIEW

Product Name	ADP-dependent (S)-NAD (P)H-hydrate dehydratase (nnrD), Recombinant Protein
Full Product Name	Recombinant Listeria monocytogenes serovar 1/2a ADP-dependent (S)-NAD (P)H-hydrate dehydratase (nnrD)
Product Gene Name	nnrD recombinant protein
Product Synonym Gene Name	nnrD
Sequence	MKKITPKAMC AWIPKREDET HKGDYGRVLI VAGNKQFGGA AIMAAEACVK SGAGLTTVAS DSVNRPALQT RIPECMFIDY ENITSLSEQI SQFDTILIGP GLGLDAYAEE IFRLVLQKST EHQQVIIDGD GITIYAKGEN PHPAAKLTFT PHAGEWERLK VLAPDAVTPT DVALAIDATI VLKGHRTKVY SGESAWQNMY GTPAMATGGM GDTLAGTICG LMAQTEKPIT GTLAAVFLHS YIGEILAKKR YVVLPTEIAE ELPTYLKIFS ETDEHA
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	29,796 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 Q8Y6R2
Species	Listeria monocytogenes serovar 1/2a (strain BAA-679 / EGD-e)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nnrD recombinant protein	MBS1330768 is a recombinant protein targeting nnrD. Also known as Recombinant Listeria monocytogenes serovar 1/2a ADP-dependent (S)-NAD (P)H-hydrate dehydratase (nnrD). 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 #	16803662
NCBI GeneID	985726
NCBI Accession #	NP_465147.1
UniProt Primary Accession #	Q8Y6R2

UniProt Related Accession #	Q8Y6R2
GenBank Nucleotide #	NC_003210.1
NCBI Official Full Name	hypothetical protein lmo1622
NCBI Official Symbol	lmo1622
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	hypothetical protein
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.
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