FMN-Dependent NADH-Azoreductase 3 (azoR3) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	FMN-dependent NADH-azoreductase 3 (azoR3), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus FMN-dependent NADH-azoreductase 3 (azoR3)
Product Gene Name	azoR3 recombinant protein
Product Synonym Gene Name	azoR3
Sequence	MTKVLFITAN PNSAEGSFGM AVGEAFIEAY KNEHPQDEVV TIDLFNTTVP AIDADVFAAW GKFAAGEGFE ALTEAQQQKV AAMNTNLETF MHADRYVFVT PMWNFSYPPV VKAYLDNLAI AGKTFKYTEN GPVGLLEGKK ALHIQATGGV YSEGAYAAVD FGRNHLKTVL GFIGVNETEY IAVEGMNANP EKAQEIKEAA IANARELAKR F
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	22,968 Da
Sequence Positions	1-211, Full length
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 Q738X4
Species	Bacillus cereus (strain 10987)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for azoR3 recombinant protein	MBS1475563 is a recombinant protein targeting azoR3. Also known as Recombinant Bacillus cereus FMN-dependent NADH-azoreductase 3 (azoR3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of azoR3 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 azoR3. It may not necessarily be applicable to this product.

NCBI GI #	446092161
NCBI Accession #	WP_000170016.1
UniProt Primary Accession #	Q738X4
GenBank Nucleotide #	WP_000170016.1
NCBI Official Full Name	MULTISPECIES: FMN-dependent NADH-azoreductase 3
UniProt Protein Name	FMN-dependent NADH-azoreductase 3

UniProt Synonym Protein Names	Azo-dye reductase 3
Protein Family	FMN-dependent NADH-azoreductase
UniProt Gene Name	azoR3
UniProt Comments for azoR3	Catalyzes the reductive cleavage of azo bond in aromatic azo compounds to the corresponding amines. Requires NADH, but not NADPH, as an electron donor for its activity.
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