FMN-Dependent NADH-Azoreductase (azoR) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	FMN-dependent NADH-azoreductase (azoR), Recombinant Protein
Full Product Name	Recombinant Escherichia coli FMN-dependent NADH-azoreductase (azoR)
Product Gene Name	azoR recombinant protein
Sequence	SKVLVLKSSI LAGYSQSNQL SDYFVEQWRE KHSADEITVR DLAANPIPVL DGELVGALRP SDAPLTPRQQ EALALSDELI AELKAHDVIV IAAPMYNFNI STQLKNYFDL VARAGVTFRY TENGPEGLVT GKKAIVITSR GGIHKDGPTD LVTPYLSTFL GFIGITDVKF VFAEGIAYGP EMAAKAQSDA KAAIDSIVSA
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	21,658 Da
Sequence Positions	2-201, 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 P41407
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for azoR recombinant protein	MBS1223192 is a recombinant protein targeting azoR. Also known as Recombinant Escherichia coli FMN-dependent NADH-azoreductase (azoR). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of azoR 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 azoR. It may not necessarily be applicable to this product.

NCBI GI #	16129373
NCBI GeneID	947569
NCBI Accession #	NP_415930.1
UniProt Primary Accession #	P41407
UniProt Secondary Accession #	P77143; Q93V21
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	NADH-azoreductase, FMN-dependent

NCBI Official Symbol	azoR
NCBI Official Synonym Symbols	acpD; ECK1405; JW1409
UniProt Protein Name	FMN-dependent NADH-azoreductase
UniProt Synonym Protein Names	Azo-dye reductase; FMN-dependent NADH-azo compound oxidoreductase
Protein Family	FMN-dependent NADH-azoreductase
UniProt Gene Name	azoR
UniProt Synonym Gene Names	acpD
NCBI Protein Information	NADH-azoreductase, FMN-dependent
NCBI Summary for azoR	AzoR was identifed by N-terminal sequencing in an acyl carrier protein phosphodiesterase preparation and mistaken for the acpD gene. [More information is available at EcoGene: EG12695]. The AzoR protein catalyzes the reductive cleavage of azo groups . [More information is available at EcoCyc: G6731].
UniProt Comments for azoR	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. The enzyme can reduce ethyl red and methyl red, but is not able to convert sulfonated azo dyes.
Research Articles on azoR	**1.** analysis of azoR substrate specificity and catalytic mechanism
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