

NAD(P)H-flavin reductase (fre) Recombinant Protein | fre recombinant protein

Recombinant Escherichia coli NAD(P)H-flavin reductase (fre)

CATALOG #
AAA116205

HOST
E Coli

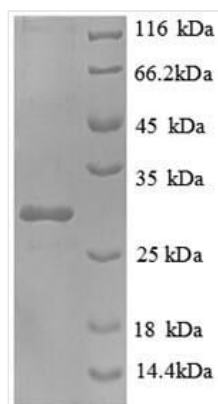
PRODUCT SYNONYMS

NAD(P)H-flavin reductase (fre); Recombinant Escherichia coli NAD(P)H-flavin reductase (fre); Aquacobalamin reductase; FMN reductase; Ferrisiderophore reductase
CNAD(P)H:flavin oxidoreductase; Riboflavin reductase [NAD(P)H]; fre recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	2-233aa; Full Length of Mature Protein
Sequence	TTLCKVTSV EAITDTVYRV RIVPDAAFSF RAGQYLMVVM DERDKRPFSM ASTPDEKGF I ELHIGASEIN LYAKAVMDRI LKDHQIVVDI PHGEAWLRDD EERPMILIAG GTGFSYARSI LLTALARNPN RDITYWGGR EEQHLYDLCE LEALSLKHPG LQVVPVVEQP EAGWRGRTGT VLTAVLQDHG TLAEHDIYA GRFEMAKIAR DLFCSEARN EDRLFGDAFA FI
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for fre recombinant protein

Catalyzes the reduction of soluble flavins by reduced pyridine nucleotides. Ses to reduce the complexed Fe³⁺ iron of siderophores to Fe²⁺, thus releasing it from the chelator.

References	Characterization of the flavin reductase gene (fre) of Escherichia coli and construction of a plasmid for overproduction of the enzyme.Spyrou G., Haggaard-Ljungquist E., Krook M., Joernvall H., Nilsson E., Reichard P.J. Bacteriol. 173:3673-3679(1991) FadI identification, characterization, and nucleotide sequence of a gene required for full activation of structural genes of the AD regulon in Escherichia coli.Dirusso C.C., Shea O. Saviranta P.J. Analysis of the Escherichia coli genome DNA sequence of the region from 84.5 to 86.5 minutes.Daniels D.L., Plunkett G. III, Burland V.D., Blattner F.R.Science 257:771-778(1992) The complete genome sequence of Escherichia coli K-12.Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y.Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110.Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) The haemoglobin-like protein (HMP) of Escherichia coli has ferrisiderophore reductase activity and its C-terminal domain shares homology with ferredoxin NADP+ reductases.Andrews S.C., Shipley D., Keen J.N., Findlay J.B.C., Harrison P.M., Guest J.R.FEBS Lett. 302:247-252(1992) Crystal structure of NAD(P) H:flavin oxidoreductase from Escherichia coli.Ingelman M., Ramaswamy S., Niviere V., Fontecave M., Eklund H.Biochemistry 38:7040-7049(1999)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16131690
NCBI GeneID	948325
NCBI Accession #	NP_418286.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0AEN1; P23486; P76768; Q2M8E7
Molecular Weight	30.1 kDa
NCBI Official Full Name	NAD(P)H-flavin reductase
NCBI Official Symbol	fre
NCBI Official Synonym Symbols	ECK3836; fadI; flrD; fsrC; hsm-6; JW3820
NCBI Protein Information	NAD(P)H-flavin reductase
UniProt Protein Name	NAD(P)H-flavin reductase
UniProt Gene Name	fre
UniProt Synonym Gene Names	fadI; flrD; fsrC; ubiB
UniProt Entry Name	FRE_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.