





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

Product Code	CSB-RP185374Ba
Relevance	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.
Abbreviation	Recombinant E.coli fre protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P0AEN1
Alias	Aquacobalamin reductaseFMN reductaseFerrisiderophore reductase CNAD(P)H:flavin oxidoreductaseRiboflavin reductase [NAD(P)H]
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	TTLSCKVTSVEAITDTVYRVRIVPDAAFSFRAGQYLMVVMDERDKRPFSMAST PDEKGFIELHIGASEINLYAKAVMDRILKDHQIVVDIPHGEAWLRDDEERPMILIA GGTGFSYARSILLTALARNPNRDITIYWGGREEQHLYDLCELEALSLKHPGLQV VPVVEQPEAGWRGRTGTVLTAVLQDHGTLAEHDIYIAGRFEMAKIARDLFCSE RNAREDRLFGDAFAFI
	NIAKEDREGDAFAFI
Research Area	Others
Research Area Source	
	Others
Source	Others E.coli
Source Target Names	Others E.coli fre
Source Target Names Expression Region	Others E.coli fre 2-233 Repeated freezing and thawing is not recommended. Store working aliquots at
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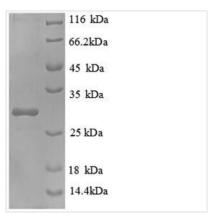
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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression of recombinant Escherichia coli (strain K12) fre protein in e.coli cells requires incorporating a DNA fragment encoding the Escherichia coli (strain K12) fre protein (2-233aa) into a plasmid vector and transforming this vector into e.coli cells. Positive cells are screened, cultured, and induced to produce the fre protein. A N-terminal 6xHis tag is attached to the protein. The recombinant Escherichia coli (strain K12) fre protein is collected and purified from the cell lysate through affinity purification. It is assessed through SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue, with a purity of exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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