

Recombinant Human FXN protein, His-tagged

Cat. No. FXN-1823H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FXN (42-210aa) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	42-210 a.a.
Description	Frataxin, also known as FXN, is an iron binding protein which belongs to FRATAXIN family. It is an anti-apoptotic protein which prevents mitochondrial damage, reactive oxygen species production and act as either an iron chaperone or an iron storage protein. Frataxin is localized to the mitochondrion and regulating mitochondrial iron transport and respiration. Defects in this protein cause Friedreich ataxia. Recombinant Frataxin protein was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1 M NaCl.
Molecular Mass	21.1 kDa (190aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MLRTDIDATC TPRRASSNQR GLNQIWNVKK QSVYLMNLRK SGTGLGHPGSL DETTYERLAE ETLDSLAEFFEDLADKPYTF EDYDVSFSG VLTVKLGDDL GTYVINKQTP NKQIWLSSPS SGPKRYDWTG KNWVYSHDGV SLHELLAAEL TKALKTKLDLSSLAYSGKDA

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Purity	> 95% by SDS-PAGE
Storage	Can be stored at +4 centigradeshort term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	FXN frataxin [Homo sapiens]
Official Symbol	FXN
Synonyms	FA; X25; CyaY; FARR; FRDA; frataxin, mitochondrial; Friedreich ataxia protein
Gene ID	2395
mRNA Refseq	NM_000144
Protein Refseq	NP_000135
MIM	606829
UniProt ID	Q16595
Chromosome Location	9q21.11
Pathway	HIF-2-alpha transcription factor network, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem

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Function

2 iron, 2 sulfur cluster binding; ferric iron binding; ferroxidase activity

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