

Recombinant human Frataxin protein

Catalog Number: ATGP0448

PRODUCT INFORMATION

Expression system

E.coli

Domain

42-210aa

UniProt No.

Q16595

NCBI Accession No.

NP_000135.2

Alternative Names

CyaY, FA, FARR, FRDA, X25, FXN, Friedreich ataxia protein.

PRODUCT SPECIFICATION

Molecular Weight

21.1 kDa (190aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 20% glycerol, 0.1M NaCl 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>LRTDIDATC TPRRASSNQR GLNQIWNVKK QSVYLMNLRK SGTLGHPGSL
DETTYERLAE ETLDSLAEFF EDLADKPYTF EDYDVSFGSG VLTVKLGDDL GTYVINKQTP NKQIWLSSPS SGPKRYDWTG
KNWVYSHDGV SLHELLAAEL TKALKTKLDL SSLAYSGKDA

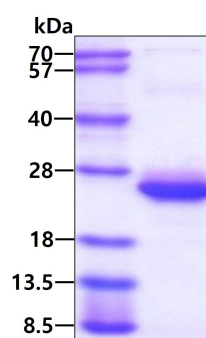
General References

Campuzano V., et al. (1996) Science. 271(5254):1423-7.

Shan Y., et al. (2007) Hum Mol Genet. 16(8):929-41.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.