

AR09331PU-N

Human Frataxin (FXN) (42-210, His-tag) - Purified

Alternate names:

FRDA, Frataxin mitochondrial, Friedreich ataxia protein

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q16595](#)

NCBI:

[NP_000135](#)

GeneID:

[2395](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS – PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl
1mM DTT

Description:

Recombinant Frataxin protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MLRTDIDATC TPRRASSNQR GLNQIWNVKK QSVYLMNLRK
SGTLGHPGSL DETTYERLAE ETLDSLAEFF EDLADKPYTF EDYDVSFGSG VLTVKLGDDL
GTIVINKQTP NKQIWLSSPS SGPKRYDWTG KNWVYSHDGV SLHELLAAEL TKALKTKLDL
SSLAYSGKDA

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

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

Pictures:

Recombinant human Frataxin (42-210 aa), His-tagged: 15% SDS-PAGE (3 µg)

