antibodies -online.com





Frataxin Protein (FXN) (AA 78-210) (His tag)



Image



Go to Product page

\sim				
	$ V \cap$	r\/I	19	٨

Overview	
Quantity:	1 mg
Target:	Frataxin (FXN)
Protein Characteristics:	AA 78-210
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Frataxin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	LRKSGTLGHP GSLDETTYER LAEETLDSLA EFFEDLADKP YTFEDYDVSF GSGVLTVKLG
	GDLGTYVINK QTPNKQIWLS SPSSGPKRYD WTGKNWVYSH DGVSLHELLA AELTKALKTK
	LDLSSLAYSG KDA
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human FXN Protein (raised in E. Coli) purified by multi-step, protein-specific process to
	ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	experte in the lab will enough that you receive a correctly relaca protein.

made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	Frataxin (FXN)	
Alternative Name:	FXN (FXN Products)	
Background:	Promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by	
	delivering Fe(2+) to proteins involved in these pathways. May play a role in the protection	
	against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe(2+) to	
	Fe(3+), the oligomeric form but not the monomeric form has in vitro ferroxidase activity. May	

Target Details	
	be able to store large amounts of iron in the form of a ferrihydrite mineral by oligomerization,
	however, the physiological relevance is unsure as reports are conflicting and the function has
	only been shown using heterologous overexpression systems. Modulates the RNA-binding
	activity of ACO1. {ECO:0000269 PubMed:12785837, ECO:0000269 PubMed:15247478,
	ECO:0000269 PubMed:15641778, ECO:0000269 PubMed:16239244,
	ECO:0000269 PubMed:16608849, ECO:0000269 PubMed:20053667}.
Molecular Weight:	15.6 kDa Including tag.
UniProt:	Q16595
Pathways:	Transition Metal Ion Homeostasis, Regulation of Cell Size
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

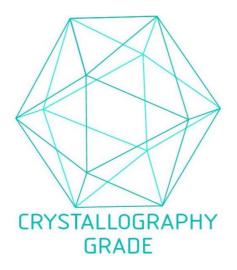


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process