

Recombinant Human Frataxin/FXN protein (His tag)

Catalog Number:PDMH100050



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Frataxin;mitochondrial;Friedreich ataxia protein;FXN;FRDA;X25;Frataxin intermediate form
Species	Human
Expression Host	HEK293 Cells
Sequence	Leu42-Ala210
Accession	Q16595
Calculated Molecular Weight	18.5 kDa
Observed molecular weight	21 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Frataxin intermediate form can cleave by mitochondrial processing peptidase(MPP) to the mature frataxin. Frataxin is a nuclear-encoded mitochondrial protein highly conserved in prokaryotes and eukaryotes. Its deficiency was initially described as the phenotype of Friedreich's ataxia, an autosomal recessive disease in humans. Although several functions have been described for frataxin, that is, involvement in Fe-S cluster and heme synthesis, energy conversion and oxidative phosphorylation, iron handling and response to oxidative damage, its precise function remains unclear. Although there is a general consensus on the participation of frataxin in the maintenance of cellular iron homeostasis and in iron metabolism, this protein may have other specific functions in different tissues and organisms.

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