

Recombinant Mouse Frataxin, mitochondrial(Fxn)

Catalog No: #AP70317

Package Size: #AP70317-1 20ug #AP70317-2 100ug #AP70317-3 1mg

Description

Product Name	Recombinant Mouse Frataxin, mitochondrial(Fxn)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:78-207aaSequence Info:Full Length
Accession No.	O35943
Calculated MW	30.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	LGTLDPSSLDETAYERLAEETLDSLAEFFEDLADKPYTLEDYDVSFGDGVLTIKLGGDLGTYVINKQTPNKQI WLSSPSSGPKRYDWTGKNWVYSHDGVSLHELLARELTALNTKLDLSSLAYS GKGT
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Promotes the biosynthesis of he and assbly and repair of iron-sulfur clusters by delivering Fe²⁺ 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 Fe²⁺ to Fe³⁺; the oligomeric form but not the monomeric form has in vitro ferroxidase activity. May be able to store large amounts of iron in the form of a ferrihydrite mineral by oligomerization. Modulates the RNA-binding activity of ACO1 .

References

Elucidation of the mechanism of mitochondrial iron loading in Friedreich's ataxia by analysis of a mouse mutant.Huang M.L., Becker E.M., Whitnall M., Rahmanto Y.S., Ponka P., Richardson D.R.Proc. Natl. Acad. Sci. U.S.A. 106:16381-16386(2009) Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.