Recombinant Human ERO1B Protein, Full Length, C-Flag tagged

Cat. No. ERO1LB-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of full length human ERO1-like beta (S. cerevisiae) (ERO1LB), with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	Full Length
Description	Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB to sustain additional rounds of disulfide formation. Other protein disulfide isomerase family members can also be reoxidized, but at lower rates compared to P4HB, including PDIA2 (50% of P4HB reoxidation rate), as well as PDIA3, PDIA4, PDIA6 and NXNDC12 (<10%). Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell. May be involved in oxidative proinsulin folding in pancreatic cells, hence may play a role in glucose homeostasis.
Molecular Mass	53.4 kDa
AA Sequence	MSQGVRRAGAGQGVAAAVQLLVTLSFLRSVVEAQVTGVLDDCLCDIDSIDNFNTYKI FPKIKKLQERDYFRYYKVNLKRPCPFWAEDGHCSIKDCHVEPCPESKIPVGIKAGHS NKYLKMANNTKELEVCEQANKLGAINSTLSNQSKEAFIDWARYDDSRDHFCELDDE

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	RSPAAQYVDLLLNPERYTGYKGTSAWRVWNSIYEENCFKPRSVYRPLNPLAPSRGE DDGESFYTWLEGLCLEKRVFYKLISGLHASINLHLCANYLLEETWGKPSWGPNIKEF KHRFDPVETKGEGPRRLKNLYFLYLIELRALSKVAPYFERSIVDLYTGNAEEDADTKT LLLNIFQDTKSFPMHFDEKSMFAGDKKGAKSLKEEFRLHFKNISRIMDCVGCDKCRL WGKLQTQGLGTALKILFSEKEIQKLPENSPSKGFQLTRQEIVALLNAFGRLSTSIRDL QNFKVLLQHSRTRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.	
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.	
Storage	Store at -80 centigrade.	
Concentration	>0.05 μg/μL as determined by microplate BCA method	
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol	
Reconstitution	Enables thiol oxidase activity. Involved in protein folding in endoplasmic reticulum. Predicted to be located in membrane. Predicted to be active in endoplasmic reticulum membrane.	

GENE INFORMATION

Gene Name	ERO1B endoplasmic reticulum oxidoreductase 1 beta [Homo sapiens (human)]
Official Symbol	ERO1B

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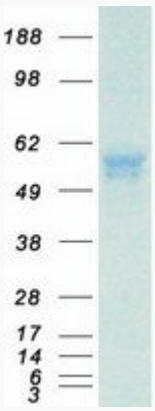
Synonyms	ERO1B; endoplasmic reticulum oxidoreductase 1 beta; ERO1LB; Ero1beta; ERO1-like protein beta; Names; ERO1-L-beta; ERO1-like beta; endoplasmic oxidoreductin-1-like protein B; endoplasmic reticulum oxidoreductase beta; endoplasmic reticulum oxidoreductin-1-like protein B; oxidoreductin-1-L-beta
Gene ID	56605
mRNA Refseq	NM_019891
Protein Refseq	NP_063944
MIM	615437
UniProt ID	Q86YB8
SDS-PAGE	

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