

Product datasheet for **TP308445**

ERO1LB (ERO1B) (NM_019891) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ERO1-like beta (<i>S. cerevisiae</i>) (ERO1LB), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208445 protein sequence Red =Cloning site Green =Tags(s)

MSQGVRRAGAGQGVA~~AAV~~QLLVTL~~S~~FLRSWEAQVTGVLDDCLCDIDSIDNFNTYKIFPKIKKLQERDYF
RYYKVN~~L~~KRPCPFWAEDGHCSIKDCHVEPCPESKIPVGIKAGHSNKYLKMANNTKELEVCEQANKLGAIN
STLSNQSKEAFIDWARYDDSRDHFCELD~~D~~ERSPAAQYVDLLL~~N~~PERYTGKGTSAWRVWNSIYEENCFKP
RSVYRPLNPLAPSRGEDDGESFYTWLEGLCLEKRVFYKLISGLHASINLHLCANYLLEETW~~G~~KPSWGPNI
KEFKHRFDPVETKGE~~G~~PRRLKNLYFLYLIELRALSKVAPYFERSIVDLYTGNAEEDADTK~~L~~LLNIFQDT
KSFPMHFDEKSMFAGDKKGA~~S~~LKEEFRLHFKNISRIMDCVGC~~D~~KRLW~~G~~KLQTQGLGTALKILFSEKEI
QKL~~P~~ENSPSKGFQLTRQEIVALLNAFGRLSTSIRD~~L~~QNF~~V~~LLQHSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	53.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_063944</u>

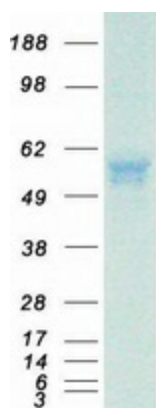


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Locus ID:	56605
UniProt ID:	Q86YB8
RefSeq Size:	5070
Cytogenetics:	1q42.3
RefSeq ORF:	1401
Synonyms:	Ero1beta; ERO1LB

Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified ERO1B protein (Cat# TP308445). The protein was produced from HEK293T cells transfected with ERO1B cDNA clone (Cat# [RC208445]) using MegaTran 2.0 (Cat# [TT210002]).