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Product datasheet for TP507470

Ero1lb (NM_026184) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ERO1-like beta (S. cerevisiae) (Ero1lb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207470 protein sequence Red=Cloning site Green=Tags(s) MSPGFRRAVTGQGAAAAVQLLVTLSFLSSLVKTQVTGVLDDCLCDIDSIDKFNTYKIFPKIKKLQERDYF RYYKVNLKRPCPFWAEDGHCSIKDCHVEPCPESKIPVGIKAGRSNKYSQAANSTKELDDCEQANKLGAIN STLSNESKEAFIDWARYDDSQDHFCELDDERSPAAQYVDLLLNPERYTGYKGSSAWRVWNSIYEENCFKP RSVYRPLNPLAPSRGEDDGESFYTWLEGLCLEKRVFYKLISGLHASINLHLCANYLLEETWGKPSWGPNI KEFRRRFDPVETKGEGPRRLKNLYFLYLIELRALSKVAPYFERSIVDLYTGNVEDDADTKTLLLSIFQDT KSFPMHFDEKSMFAGDKKGAKSLKEEFRLHFKNISRIMDCVGCDKCRLWGKLQTQGLGTALKILFSEKEI QNLPENSPSKGFQLTRQEIVALLNAFGRLSTSIRELQNFKALLQHRR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	53.5 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
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 after receiving vials.
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:	NP_080460
Locus ID:	67475

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UniProt ID:	Q8R2E9
RefSeq Size:	4255
Cytogenetics:	13 A1
RefSeq ORF:	1404
Synonyms:	1300013B24Rik; 1700065B09Rik; AI447560; ero1-beta; Ero1b
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, PDIA3, PDIA4, PDIA6 and NXNDC12. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell (By similarity). Involved in oxidative proinsulin folding in pancreatic cells, hence required for glucose homeostasis in vivo.[UniProtKB/Swiss-Prot Function]