

## Product datasheet for PH308445

### ERO1LB (ERO1B) (NM\_019891) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ERO1LB MS Standard C13 and N15-labeled recombinant protein (NP_063944)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208445
Predicted MW:	53.5 kDa
Protein Sequence:	>RC208445 protein sequence Red=Cloning site Green=Tags(s)

MSQGVRRAGAGQGVAADVQLLVLSFLRSVVEAQVTGVLDDCLCDIDSIDNFNTYKIFPKIKKLQERDYF  
RYYKVNLRPCPFWAEDGHCSIKDCHVEPCPEKIPVGIKAGHSNKYLKMANNTKELEVCEQANKLGAIN  
STLSNQSKEAFIDWARYDDSRDHFCELDDESPAAQYVDLLLNPERYTGKGTSAWRVWNSIYEENCFKP  
RSVYRPLNPLAPSRGEDDGESFYTWLEGLCLEKRVFYKLSGLHASINLHL CANYLLEETWGKPSWGPNI  
KEFKHRFDPVETKGEPRRLKNLYFLYLIELRALSKVAPYFERSIVDLTYGNAEEDADTKLLLNIFQDT  
KSFPMHFDEKSMFAGDKKGAKSLKEEFRLHFKNISRIMDCVGCDCRLWGKLQTQGLGTALKILFSEKEI  
QKLPENSPSKGFQLTRQEIVALLNAFGRLSTSIRDQLQNFVLLQHSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_063944</u>
RefSeq Size:	5070
RefSeq ORF:	1401
Synonyms:	Ero1beta; ERO1LB



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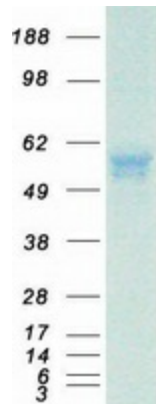
Locus ID: 56605

UniProt ID: [Q86YB8](#)

Cytogenetics: 1q42.3

**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]).