Recombinant Mouse Ero1b Protein, Myc/DDK-tagged

Cat. No. Ero1b-2866M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ERO1-like beta (S. cerevisiae) (Ero1lb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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, 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. Involved in oxidative proinsulin folding in pancreatic cells, hence required for glucose homeostasis in vivo.
Molecular Mass	53.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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 after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ero1b endoplasmic reticulum oxidoreductase 1 beta [Mus musculus (house mouse)]
Official Symbol	Ero1b
Synonyms	ERO1LB; ERO1-like beta (S. cerevisiae); ERO1-like protein beta; ERO1-L-beta; oxidoreductin-1-L-beta; endoplasmic oxidoreductase 1 beta; endoplasmic oxidoreductin-1-like protein B; AI447560; ero1-beta; 1300013B24Rik; 1700065B09Rik; MGC77955
Gene ID	67475
mRNA Refseq	NM_026184
Protein Refseq	NP_080460
UniProt ID	Q8R2E9

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