Recombinant Human endoplasmic reticulum oxidoreductase 1 alpha Protein, His&Flag tagged

Cat. No. ERO1A-226H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ERO1A protein (Q96HE7) (Gln 997-Gly 1256) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	24-468aa
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. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell. Required for the proper folding of immunoglobulins. Plays an important role in ER stress-induced, CHOP-dependent apoptosis by activating the inositol 1,4,5-trisphosphate receptor IP3R1. Involved in the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by V.cholerae, thereby playing a role in retrotranslocation of the toxin.
Tag	C-His&Flag
Molecular Mass	54.7 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.

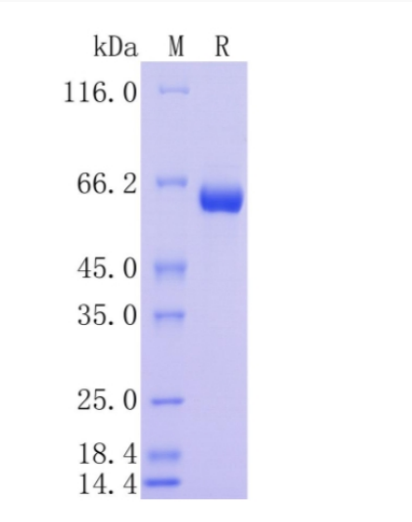
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Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	ERO1A endoplasmic reticulum oxidoreductase 1 alpha [Homo sapiens (human)]
Official Symbol	ERO1A
Synonyms	ERO1A; endoplasmic reticulum oxidoreductase 1 alpha; ERO1L; ERO1-L; ERO1LA; Ero1alpha; ERO1-alpha; ERO1-L-alpha; ERO1-like protein alpha; endoplasmic oxidoreductin-1-like protein; endoplasmic reticulum oxidoreductase alpha; oxidoreductin-1-L-alpha; EC 1.8.4.-
Gene ID	30001
mRNA Refseq	NM_014584.3
Protein Refseq	NP_055399.1
MIM	615435
UniProt ID	Q96HE7

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Protein on SDS-PAGE under reducing (R) condition.	

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