

Product Name: Recombinant Human ERO1L (C-6His)
Catalog #: PHH0602

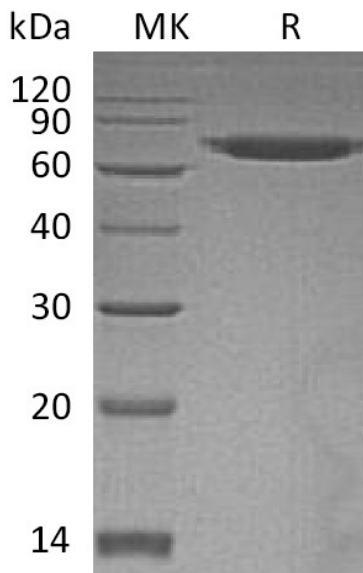


Summary

Name	ERO1-like protein alpha/ERO1L
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human ERO1-Like Protein Alpha is produced by our Mammalian expression system and the target gene encoding Glu24-His468 is expressed with a 6His tag at the C-terminus.
Accession #	Q96HE7
Host	Human Cells
Species	Human
Predicted Molecular Mass	53 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

ERO1-Like Protein Alpha; ERO1-L; ERO1-L-Alpha; Endoplasmic Oxidoreductin-1-Like Protein; Oxidoreductin-1-L-Alpha; ERO1L

Background

ERO1-Like Protein α (ERO1L) is an enzyme that belongs to the EROs family. ERO1L is expressed at high level in esophagus and upper digestive tract. ERO1L is an essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. ERO1L acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. It associates with ERP44, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. ERO1L may be responsible for a significant proportion of reactive oxygen species (ROS) in the cell. ERO1L responds to temperature stimulus, protein thiol-disulfide exchange, protein folding with or without chaperone cofactor and transport.

Note

For Research Use Only , Not for Diagnostic Use.