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## Datasheet for ABIN7318447 ERO1L Protein (His tag)

### Overview

Quantity:	50 µg
Target:	ERO1L
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERO1L protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human ERO1A/ERO1L Protein (His Tag)
Sequence:	Glu24-His468
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	ERO1L
Alternative Name:	ERO1A/ERO1L ( <a href="#">ERO1L Products</a> )
Background:	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

## Target Details

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 responses to temperature stimulus, protein thiol-disulfide exchange, protein folding with or without chaperone cofactor and transport. Synonym: ERO1-Like Protein Alpha, ERO1-L, ERO1-L-Alpha, Endoplasmic Oxidoreductin-1-Like Protein, Oxidoreductin-1-L-Alpha, ERO1L

Molecular Weight: 53.0 kDa

UniProt: [Q96HE7](#)

Pathways: [Peptide Hormone Metabolism](#), [ER-Nucleus Signaling](#), [Brown Fat Cell Differentiation](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.