

## 32-7771: Recombinant Human ERO1-Like Protein $\alpha$ /ERO1L (C-6His)

**Gene :** ERO1A  
**Gene ID :** 30001  
**Uniprot ID :** Q96HE7

### Description

Source: Human Cells.  
MW :53kD.

Recombinant Human ERO1L is produced by our Mammalian expression system and the target gene encoding Glu24-His468 is expressed with a 6His tag at the C-terminus. ERO1-Like Protein  $\alpha$  (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 responses to temperature stimulus, protein thiol-disulfide exchange, protein folding with or without chaperone cofactor and transport.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** EEQPPETAAQRCFCQVSGYLDDCTCDVETIDRFNNYRLFRLQKLLSDYFRYYKVNLRPCPFWNDISQCGRR DCAVKPCQSDEVPDGIKSASYKYSEEANLIEECEQAERLGADESLSSEETQKAVLQWTKHDDSSDNFCEADD IQSPEAEYVDLLNPERYTGKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGGTSEENTFYSWLEGLCVEKR AFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRRLKNLYFLYLIELRALSKVLPFF ERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLKEDFRLHFRNISRIMDCVGCFCR LWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRISTSVKELENFRNLLQNIHVDHHHH HH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.