

## 32-3762: ERO1L Recombinant Protein

**Alternative Name :** ERO1-Like (S. Cerevisiae), Endoplasmic Oxidoreductin-1-Like Protein, Oxidoreductin-1-L-Alpha, ERO1-L-Alpha, ERO1LA, ERO1-L, ERO1 (S. Cerevisiae)-Like, ERO1-Like Protein Alpha, ERO1-Alpha, EC 1.8.4.-, EC 1.8.4, ERO1A, ERO1L.

### Description

Source : Escherichia Coli. ERO1L Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 468 amino acids (24-468) and having a molecular mass of 54.4 kDa. ERO1L is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. ERO1-like protein alpha (ERO1L) is an essential oxidoreductase, which oxidizes proteins and is necessary for the folding of immunoglobulins. ERO1L covalently binds with PDI (protein disulfide-isomerase) and jointly they generate disulfide bonds between proteins in the endoplasmic reticulum. ERO1L is stimulated by hypoxia, proposing that ERO1L is regulated through the HIF (hypoxia inducible transcription factor) pathway. At low levels ERO1L is ubiquitously expressed, however at high levels it is expressed in the upper digestive tract and esophagus. In addition, ERO1L is involved in the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by V.cholerae, thus having a role in retrotranslocation of the toxin. Furthermore, ERO1L plays an important role in ER stress-induced, CHOP-dependent apoptosis by activating the inositol 1,4,5-trisphosphate receptor IP3R1.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The ERO1L solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSEEQPPET AAQRCFCQVS GYLDDCTCDV ETIDRFNNYR  
 LFPRLQKLL SDYFRYYKVN LKRPCFWND ISQCGRRDCA VKPCQSDEVP DGIKSASYKY SEEANNLIEE  
 CEQAERLGAV DESLSEETQK AVLQWTKHDD SSDNFCEADD IQSPEAEYVD LLLNPERYTG  
 YKGPDAWKIW NVIYEENCFK PQTIKRPLNP LASGQGTSEE NTFYSWLEGL CVEKRAFYRL ISGLHASINV  
 HLSARYLLQE TWLEKKWGHN ITEFQQRFDDG ILTEGEGPRR LKNLYFLYLI ELRALSKVLP FFERPDFQLF  
 TGNKIQDEEN KMLLLEILHE IKSFPLHFDE NSFFAGDKKE AHKLKEDFRL HFRNISRIMD CVGCFKCRLW  
 GKLTQQLGT ALKILFSEKL IANMPESGPS YEFHLTRQEI VSLFNAFGRI STSVKELENF RNLLQNIH.

