

# Recombinant human ERO1L alpha protein

Catalog Number: ATGP2669

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

24-468aa

**UniProt No.**

Q96HE7

**NCBI Accession No.**

NP\_055399

**Alternative Names**

ERO1-like protein alpha, ERO1-alpha, ERO1A

## PRODUCT SPECIFICATION

**Molecular Weight**

54.4 kDa (468aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**Purity**

> 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**

ERO1-like protein alpha, also known as EPO1L, is an essential oxidoreductase that oxidizes proteins and is required for the folding of immunoglobulins. EPO1L covalently binds with PDI (protein disulfide-isomerase) and together they produce disulfide bonds between proteins in the endoplasmic reticulum. EPO1L is stimulated by hypoxia, suggesting that it is regulated through the HIF (hypoxia inducible transcription factor) pathway. EPO1L is ubiquitously expressed at low levels but expressed at high levels in upper digestive tract and esophagus. Recombinant human EPO1L protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSEEQPPET AAQRCFCQVS GYLDDCTCDV ETIDRFNNYR LFPRLQKLE SDYFRYYKVN  
LKRPCFWND ISQCGRRDCA VKPCQSDEVP DGIKSASYKY SEEANNLIEE CEQAERLGAV DESLSEETQK AVLQWTKHDD  
SSDNFCEADD IQSPEAEYVD LLLNPERYTG YKGPDAWKIW NVIYEENCFK PQTIKRPLNP LASGQGTSEE NTFYSWLEGL  
CVEKRAFYRL ISGLHASINV HLSARYLLQE TWLEKKWGHN ITEFQQRFDG ILTEGEGPRR LKNLYFLYLI ELRALSKVLP  
FFERPDLQLF TGNKIQDEEN KMLLLEILHE IKSFPLHFDE NSFFAGDKKE AHKLKEDFRL HFRNISRIMD CVGCFKCRLW  
GKLQTQGLGT ALKILFSEKL IANMPESGPS YEFHLTRQEI VSLFNAFGRI STSVKELENF RNLLQNIH

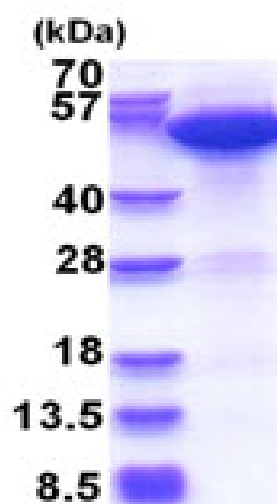
## General References

Otsu M., et al. (2006) Antioxid. Redox Signal. 8: 274-282.

Gess B., et al. (2003) J Biochem. 270: 2228-2235.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)