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# AR51489PU-S Human ERO1L (24-468, His-tag) - Purified

**Alternate names:** ERO1-L, ERO1-L-alpha, ERO1-like protein alpha, Endoplasmic oxidoreductin-1-like protein, Oxidoreductin-1-L-alpha

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml (determined by Bradford assay)

**Background:** 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 transcrip-tion factor) pathway. EPO1L is ubiquitously expressed at low levels but expressed at high levels in upper digestive tract and esophagus.

**Uniprot ID:** Q96HE7

**NCBI:** NP_055399

**GeneID:** 30001

**Species:** Human

**Source:** E. coli

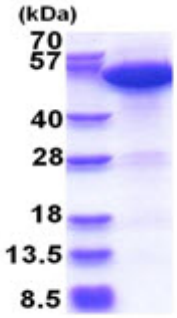
**Format:**
**State:** Liquid purified protein
**Purity:** >90% by SDS - PAGE
**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**Description:** Recombinant human EPO1L protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
**AA Sequence:**
MGSSHHHHHH SSGLVPRGSH MGSEEQPPET AAQRCFCQVS GYLDDCTCDV ETIDRFNNYR
LFPRLQKLLE SDYFRYYKVN LKRPCPFWND ISQCGRRDCA VKPCQSDEVP DGIKSASYKY
SEEANNLIEE CEQAERLGAV DESLSEETQK AVLQWTKHDD SSDNFCEADD IQSPEAEYVD
LLLNPERYTG YKGPDAWKIW NVIYEENCFK PQTIKRPLNP LASGQGTSEE NTFYSWLEGL
CVEKRAFYRL ISGLHASINV HLSARYLLQE TWLEKKWGHN ITEFQQRFDG ILTEGEGPRR
LKNLYFLYLI ELRALSKVLP FFERPDFQLF TGNKIQDEEN KMLLLEILHE IKSFPLHFDE
NSFFAGDKKE AHKLKEDFRL HFRNISRIMD CVGCFKCRLW GKLQTQGLGT ALKILFSEKL
IANMPESGPS YEFHLTRQEI VSLFNAFGRI STSVKELENF RNLLQNIH
**Molecular weight:** 54.4 kDa (468aa)

**Storage:** Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:** Otsu M., et al. (2006) Antioxid. Redox Signal. 8: 274-282. Gess B., et al. (2003) J Biochem. 270: 2228-2235.

## Pictures:




15% SDS-PAGE (3ug)