

**ERP44, 30-406aa, Human, His tag, E.coli**

**Cat.NO.: TP02047**

3th Edition

**Synonyms:**Endoplasmic reticulum protein 44, PDIA10, TXNDC4, ER protein 44

**Description:**ERP44 is a novel endoplasmic reticulum chaperone involved in thiol-dependent retention of the early secretory pathway, forming mixed disulfides with substrate proteins through its conserved CRFS motif. The protein inhibits the calcium channel activity of ITPR1. This protein may have a role in the control of oxidative protein folding in the endoplasmic reticulum.

**Form:**Liquid. In 20 mM Tris-HCl (pH 7.5) containing 10% Glycerol

**Molecular Weight:**48.0 kDa(415aa), confirmed by MALDI-TOF

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWAGSMEITSLDTENIDEILNNADVALVNFYADWCRFSQML  
HPIFEEASDVIKEEFPNENQVVFARVDCDQHSDIAQRYRISKYPTLKLFRNGMMMCREYRGQRSVKALADYIRQQK  
SDPIQEIRDLAEITTLDRSKRNIIGYFEQKSDNYRVFERVANILHDDCAFLSAFGDVSKPERYSGDNIIYKPPGHSAP  
DMVYLGAMTNFDVTYNWIQDKCVPLVREITFENGEELTEEGLPFLILFHMKEDTESLEIFQNEVARQLISEKGTINFLH  
ADCDFRHPLLHIQKTPADCPVIAIDFRHMYVFGDFKDVLPGLKQFVFDLHSGKLHREFHHGPDPTDTAPGEQA  
QDVASSPPESSFQKLAPSEYRYTLLRDRDEL

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.