

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
DMVYLGAMTNFDVTYNWIQDKCVPLVREITFENGEELEEGLPFLILFHMKEDTESLEIFQNEVARQLISEKGTINFLH
ADCDKFRHPLLHIQKTPADCPVIAIDSFHMYVFGDFKDVLPGLKQFVFDLHSGKLHREFHHGPDPTDTAPGEQA
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.