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AR09616PU-N Human TXNDC4 / ERP44 (30-406, His-tag) - Purified

Alternate names: Endoplasmic reticulum resident protein ERp44, KIAA0573, Thioredoxin domain-containing protein 4

Quantity: 0.1 mg

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

Background: 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.

Uniprot ID: Q9BS26

NCBI: NP_055866

GeneID: 23071

Species: Human

Source: E. coli

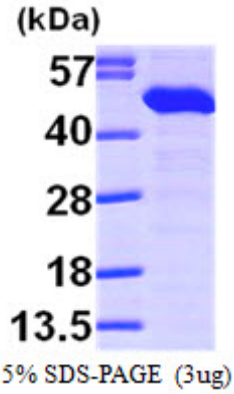
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl (pH 7.5) containing 10% Glycerol

Description: Recombinant human ERP44 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
AA Sequence:
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSMEI TSLDTENIDE ILNNADVALV
NFYADWCRFS QMLHPIFEEA SDVIKEEFPN ENQVVFARVD CDQHSDIAQR YRISKYPTLK
LFRNGMMMKR EYRGQRSVKA LADYIRQQKS DPIQEIRDLA EITTLDRSKR NIIGYFEQKD
SDNYRVFERV ANILHDDCAF LSAFGDVSKP ERYSGDNIIY KPPGHSAPDM VYLGAMTNFD
VTYNWIQDKC VPLVREITFE NGEELTEEGL PFLILFHMKE DTESLEIFQN EVARQLISEK
GTINFLHADC DKFRHPLLHI QKTPADCPVI AIDSFRHMYV FGDFKDVLIP GKLKQFVFDL
HSGKLHREFH HGPDPTDTAP GEQAQDVASS PPESSFQKLA PSEYRYTLLR DRDEL
Molecular weight: kDa (415aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

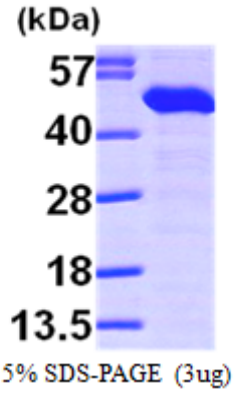
General Readings:
von Figura K., et al. (2008) J Biol Chem. 283(10):6375-83.
Sitia R., et al. (2002) EMBO J. 21(4):835-44.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human ERP44, 30-406aa, His-tagged



15% SDS-PAGE (3ug)