

Recombinant human ERP44 protein

Catalog Number: ATGP0678

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-406aa

UniProt No.

Q9BS26

NCBI Accession No.

NP_055866

Alternative Names

Endoplasmic reticulum protein 44, PDIA10, TXNDC4, ER protein 44, Endoplasmic reticulum protein 44

PRODUCT SPECIFICATION

Molecular Weight

48.0 kDa (415aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) 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

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. Recombinant human ERP44 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

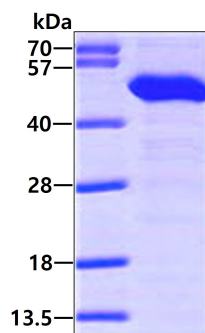
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSM>EI TSLDTENIDE ILNNADVALV NFYADWCRFS
QMLHPIFEEA SDVIKEEFPN ENQVVFARVD CDQHSDIAQR YRISKYPTLK LFRNGMMMCR EYRGQRSVKA LADYIRQQKS
DPIQEIRDLA EITTLDRSKR NIIGYFEQKD SDNYRVFERV ANILHDDCAF LSAFGDVSKP ERYSGDNIIY KPPGHSAPDM
VYLGAMTNFD VTYNWIQDKC VPLVREITFE NGEELTEEGL PFLILFHMKE DTESLEIFQN EVARQLISEK GTINFLHADC
DKFRHPLLHI QKTPADCPVI AIDSFRHMYV FGDFKDVLP GKLKQFVFDL HSGKLHREFH HGPDPDTAP GEQAQDVASS
PPESSFQKLA PSEYRYTLR DRDEL

General References

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

DATA

SDS-PAGE



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