

Recombinant Human Endoplasmic Reticulum Protein 44, His-tagged

Cat. No. ERP44-2790H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ERP44 protein (30-406aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	30-406 a.a.
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 proteininhibits the calcium channel activity of ITPR1. This protein may have a role in the control of oxidative protein folding in the endoplasmic reticulum.
Sequences	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 FGDFKDVLP GKLKQFVFDL HSGKLHREFH HGPDPDTAP GEQAQDVASS PPESSFQKLA

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PSEYRYTLR DRDEL.

Form

Liquid. In 20 mM Tris-HCl buffer (pH7.5) containing 0.1M NaCl, 1mM DTT, 10% glycerol.

Molecular Weight

48.0 kDa(415aa),confirmed by MALDI-TOF.

Purity

> 90% by SDS – PAGE.

Concentration

1 mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name

[ERP44 endoplasmic reticulum protein 44 \[Homo sapiens \]](#)

Synonyms

ERP44; endoplasmic reticulum protein 44; ER protein 44; endoplasmic reticulum resident protein 44; endoplasmic reticulum resident protein 44 kDa; protein disulfide isomerase family A, member 10; thioredoxin domain containing 4 (endoplasmic reticulum); thioredoxin domain-containing protein 4; PDIA10; TXNDC4; KIAA0573

Gene ID

[23071](#)

mRNA Refseq

[NM_015051](#)

Protein Refseq

[NP_055866](#)

MIM

[609170](#)

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UniProt ID	Q9BS26
Chromosome Location	9q31.1
Function	protein binding;protein disulfide isomerase activity

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