

# Recombinant Human ERP44 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERP44-5199H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	ERP44 MS Standard C13 and N15-labeled recombinant protein (NP_055866) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a member of the protein disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins. It has an inferred N-terminal signal peptide, a catalytically active thioredoxin (TRX) domain, two TRX-like domains and a C-terminal ER-retention sequence. This protein functions as a pH-regulated chaperone of the secretory pathway and likely plays a role in protein quality control at the endoplasmic reticulum - Golgi interface.
<b>Molecular Mass</b>	47 kDa
<b>AA Sequence</b>	MHPAVFLSLPDLRCSLLLLVTWVFTPVTTEITSLDTENIDEILNNADVALVNFYADWC RFSQMLHPIFEEASDVIKEEFPNENQVVFARVDCDQHSDIAQRYRISKYPTLKLFRNG MMMCREYRGQRSVKALADYIRQQKSDPIQEIRDLAEITLDRSKRNIIGYFEQKSDSN YRVFERVANILHDDCAFLSAFGDVSKPERYSGDNIIYKPPGHSAPDMVYLGAMTNFD VTYNWIQDKCVPLVREITFENGEELTEEGLPFLILFHMKEDTESLEIFQNEVARQLISE KGTINFLHADCDKFRHPLLHIQKTPADCPVIAIDFRHMYVFGDFKDVLPGLKQFVF DLHSGKLHREFHHGPDPTDTAPGEQAQDVASSPPESSFQKLAPSEYRYTLLRDRDE

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LTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [ERP44 endoplasmic reticulum protein 44 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [ERP44](#)

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

**Gene ID** [23071](#)

**mRNA Refseq** [NM\\_015051](#)

**Protein Refseq** [NP\\_055866](#)

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**MIM** 609170

**UniProt ID** Q9BS26

**SDS-PAGE**



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