

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

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

SPECIFICATION

Product Overview	ERP44 MS Standard C13 and N15-labeled recombinant protein (NP_055866) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	47 kDa
AA Sequence	MHPAVFLSLPDLRCSLLLLVTWVFTPVTTEITSLDTENIDEILNNADVALVNFYADWC RFSQMLHPHFEEASDVKEEFNENQVVFARVDCDQHSDIAQRYRISKYPTLKLFRNG MMMCREYRGQRSVKALADYIRQQKSDPIQEIRDLAEITTLDRSKRNIIGYFEQKSDSN YRVFERVANILHDDCAFLSAFGDVSKPERYSGDNIIYKPPGHSAPDMVYLGAMTNFD VTYNWIQDKCVPLVREITFENGEEELTEEGLPFLILFHMKEDTESLEIFQNEVARQLISE KGTINFLHADCDKFRHPLLHIQKTPADCPVIAIDSFHRMYVFGDFKDVLPGLKQFVF 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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