

Recombinant Human PDIA3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDIA3-5933H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDIA3 MS Standard C13 and N15-labeled recombinant protein (NP_005304) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. This protein also functions as a molecular chaperone that prevents the formation of protein aggregates.
Molecular Mass	56.78 kDa
AA Sequence	MRLRRLLALFPGVALLLAAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWC GHCKRLAPEYEAAATRLKGIVPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGA YDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFISDKDASIVGFFDDSFSEAHSEFL KAASNLRDNYRFAHTNVESLVNEYDDNGEGIILFRPSHLTNKFEDKTVAYTEQKMST GKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWRNRVMMV

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AKKFLDAGHKLNFAVASRKTFSELSDFGLESTAGEIPVVAIRTAKEKFVMQEEFS
RDGKALERFLQDYFDGNLKRYLKSEPIPESNDGPVKVVVAENFDEIVNNENKDVLIIEF
YAPWCGHCKNLEPKYKELGEKLSKDPNIVIAKMDATANDVPSPYEVRGFPTIYFSPA
NKKLNPKKYEGGRELSDFISYLQREATNPPVIQEEKPKKKKKAQEDLTRTRPLEQKLI
SEEDLAANDILDYKDDDDKV

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 PDIA3 protein disulfide isomerase family A member 3 [Homo sapiens (human)]

Official Symbol PDIA3

Synonyms PDIA3; protein disulfide isomerase family A, member 3; glucose regulated protein, 58kDa, GRP58, protein disulfide isomerase associated 3; protein disulfide-isomerase A3; ERp57; ERp60; ERp61; GRP57; HsT17083; P58; PI PLC; ER protein 57; ER protein 60; phospholipase C-alpha; 58 kDa microsomal protein; disulfide isomerase ER-60; endoplasmic reticulum P58; 58 kDa glucose-regulated protein; glucose regulated protein, 58kDa; protein disulfide isomerase-associated 3; endoplasmic reticulum resident protein 57; endoplasmic reticulum resident protein 60; ER60; GRP58; PI-PLC;

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Gene ID	2923
mRNA Refseq	NM_005313
Protein Refseq	NP_005304
MIM	602046
UniProt ID	P30101
SDS-PAGE	