

Recombinant Human PDIA3 Protein, His-tagged

Cat. No. PDIA3-186H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDIA3 fused with His tag at C-terminal was expressed in HEK293.
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.
Form	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl, 150mM NaCl, 10%Glycerol, pH7.5
Molecular Mass	55.3kD
AA Sequence	SDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEEAAATRLKGIVPLA KVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASV PLRTEEEFKKFISDKDASIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNE YDDNGEGIILFRPSHLTNKFEDKTVAYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

IQGKDLLIAYYDVDYEKNAKGSNYWRNRVMMVAKKFLDAGHKLNFAVASRKTFSSHE
 LSDFGLESTAGEIPVVAIRTAKGEKFVMQEEFSRDGKALERFLQDYFDGNLKYRLKS
 EPIPESNDGPVKVVVAENFDEIVNNENKDVLIIFYAPWCGHCKNLEPKYKELGEKLS
 KDPNIVIAKMDATANDVPSPYEVGRFPTIYFSPANKKLNPKKYEGGRELSDFISYLQR
 EATNPPVIQEEKPKKKKKAQEDLVDHHHHHHH*

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

Gene Name PDIA3 protein disulfide isomerase family A, member 3 [Homo sapiens]

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;

Gene ID 2923

mRNA Refseq NM_005313

Protein Refseq NP_005304

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MIM	602046
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UniProt ID	P30101
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