

Recombinant Full Length Human PDIA3 Protein, C-Flag-tagged

Cat. No. PDIA3-871HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDIA3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.2 kDa
AA Sequence	MRLRRLALFPGVALLLAAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWC GHCKRLAPEYEAA ATRLKGIVPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAG AYDGPRTADGIVSHLKKQAGPASVPLR TEEEFKKFISDKDASIVGFFDDSFSEAHSE FLKAASNLRDNYRFAHTNVESLVNEYDDNGEGIILFRPSH LTNKFEDKTVAYTEQKM TSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDV DYEKNAKGSNYWR NRVM

 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

MVAKKFLDAGHKLNFAVASRKTFSELSDFGLESTAGEIPVVAIRTAKEKFVMQEE
 FSRDGKALE RFLQDYFDGNLKYRKSEPIPESNDGPVKVVVAENFDEIVNNENKDV
 IEFYAPWCGHCKNLEPKYKELG EKLSKDPNIVIAKMDATANDVPSPYEVRGFPTIYF
 SPANKKLNPKKYEGGRELSDFISYLQREATNPPVI
 QEEKPKKKKKAQEDLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Antigen processing and presentation
Full Length	Full L.

GENE INFORMATION

Gene Name	PDIA3 protein disulfide isomerase family A member 3 [Homo sapiens (human)]
Official Symbol	PDIA3
Synonyms	P58; ER60; ERp57; ERp60; ERp61; GRP57; GRP58; PI-PLC; HsT17083; HEL-S-

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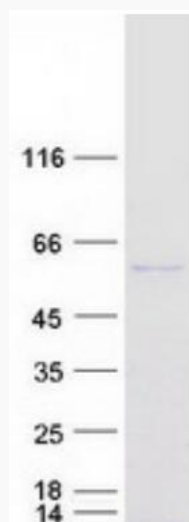
269; HEL-S-93n

Gene ID 2923

mRNA Refseq NM_005313.5

Protein Refseq NP_005304.3

MIM 602046

UniProt ID P30101


Coomassie blue staining of purified PDIA3 protein.

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