

Recombinant Human PDIA3 Protein, His-tagged

PDIA3-186H Human

Lot. No. (See product label)

Specification

Product Overview Recombinant Human PDIA3 fused with His tag at C-terminal was expressed in 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.

Source HEK293

Species Human

Tag His

Form Supplied as a 0.2 µM filtered solution of 20mM TrisHCl, 150mM NaCl, 10%Glycerol, pH7.5

Molecular Mass 55.3kD

AA Sequence

SDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEEAAATRLKGIVPLAKVDCTANT
 NTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFISDKDA
 SIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVEESLVNEYDDNGEGIILFRPSHLTNKFEDKTV
 AYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWRNRVMM
 VAKKFLDAGHKLNFVAVSRKTFSELSDFGLESTAGEIPVVAIRTAKEKGFVMQEEFSTRDGKALE
 RFLQDYFDGNLKRILKSEPIPESENDGPVKVVVAENFDEIVNENKDLIEFYAPWCGHCKNLEPK
 YKELGEKLSKDPNIVIAKMDATANDVPSPEYVRGFPTIYFSPANKKLNPKKYEGGRELSDFISYLQ
 REATNPPVIQEEKPKKKKKAQEDLVDHHHHHH*

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

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

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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
MIM	602046
UniProt ID	P30101

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