

## Recombinant Human PDIA6, His-tagged

**Cat. No.** PDIA6-2856H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant human PDIA6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 48.5kDa (442aa) confirmed by MALDI-TOF.

**Species**      Human

**Source**      E.coli

**Description**      PDIA6 is a member of the protein disulfide isomerase (PDI). PDI is an enzyme in the endoplasmic reticulum in eukaryotes or periplasmic space of prokaryotes that catalyzes the formation and breakage of disulfide bonds between cysteine residues within proteins as they fold. PDIA6 function as a chaperone that inhibits aggregation of misfolded proteins. It plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin.

**Sequences Of Amino Acids**

MGSSHHHHHH SSGLVPRGSH MLYSSSDDDVI ELTPSNFNRE VIQSDSLWL  
 EFYAPWCGHC QRLTPEWKKA ATALKDVVKV GAVDADKHHS LGGQYGVQGF  
 PTIKIFGSNK NRPEDYQGGR TGEAIVDAAL SALRQLVKDR LGGRSGGYSS  
 GKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWMVEFYAP WCGHCKNLEP  
 EWAAAASEVK EQTKGKVKLA AVDATVNQVL ASRYGIRGFP TIKIFQKGES  
 PVDYDGGRTTR SDIVSRALDL FSDNAPPEL LEINEDIAK RTCEEHQLCV  
 VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA  
 LGIGGFGYPA MAAINARKMK FALLKGSFSE QGINEFLREL SFGRGSTAPV  
 GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLKGD EL

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|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% by SDS – PAGE.                                                                                                                                  |
| <b>Form</b>          | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl.                                                                     |
| <b>Concentration</b> | 1mg/ml (determined by Bradford).                                                                                                                      |
| <b>Storage</b>       | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | PDIA6 protein disulfide isomerase family A, member 6 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>       | PDIA6; protein disulfide isomerase family A, member 6; P5; ERP5; TXNDC7; protein disulfide-isomerase A6; ER protein 5; OTTHUMP00000200409; OTTHUMP00000200410; protein disulfide isomerase P5; endoplasmic reticulum protein 5; thioredoxin domain-containing protein 7; protein disulfide isomerase-associated 6; protein disulfide isomerase-related protein; thioredoxin domain containing 7 (protein disulfide isomerase); EC 5.3.4.1 |
| <b>Gene ID</b>        | 10130                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>    | NM_005742                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b> | NP_005733                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>            | 611099                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>     | Q15084                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|----------------------------|---------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 2p25.1                                                                    |
| <b>Pathway</b>             | Protein processing in endoplasmic reticulum                               |
| <b>Function</b>            | isomerase activity; protein binding; protein disulfide isomerase activity |

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