

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 VIQSDSLWLWV 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 LGIGGFGYP MAAINARKMK FALLKGSFSE QGINEFLREL SFGRGSTAPV GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLKGD EL

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Purity	> 90% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl.
Concentration	1mg/ml (determined by Bradford).
Storage	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

Gene Name	PDIA6 protein disulfide isomerase family A, member 6 [Homo sapiens]
Synonyms	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
Gene ID	10130
mRNA Refseq	NM_005742
Protein Refseq	NP_005733
MIM	611099
UniProt ID	Q15084

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Chromosome Location	2p25.1
Pathway	Protein processing in endoplasmic reticulum
Function	isomerase activity; protein binding; protein disulfide isomerase activity

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