

Active Recombinant Human PDIA6 protein, His-tagged

Cat. No. PDIA6-22H **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.
Species	Human
Source	E.coli
ProteinLength	20-440 aa
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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing, 50mM NaCl, 2mM DTT and 10% glycerol
Bio-activity	Specific activity >20 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.
Molecular Mass	48.5 kDa (442aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MLYSSDDVI ELTPSNFNRE VIQSDSLWLV

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EFYAPWCGHC QRLTPEWKKA ATALKDVVKV GAVDADKHHS LGGQYGVQGF
PTIKIFGSNK NRPEDYQGGR TGEAIVDAAL SALRQLVKDR LGGRSGGYSS
GKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWMVEFYAP WCGHCKNLEP
EWAAAASEVK EQTKGKVKLA AVDATVNQVL ASRYGIRGFP TIKIFQKGES
PVDYDGGRTS SDIVSRALDLFSDNAPPEL LEINEDIAK RTCEEHQLCV
VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA
LGIGGGFYPA MAAINARKMK FALLKGSFSE QGINEFLREL SFGRGSTAPV
GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLKGD EL

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name PDIA6 protein disulfide isomerase family A, member 6 [Homo sapiens]

Official Symbol PDIA6

Synonyms PDIA6; protein disulfide isomerase family A, member 6; protein disulfide isomerase associated 6 , thioredoxin domain containing 7 (protein disulfide isomerase) , TXNDC7; protein disulfide-isomerase A6; ERp5; P5; protein disulfide isomerase related protein; ER protein 5; 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); ERP5; TXNDC7;

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Gene ID	10130
mRNA Refseq	NM_005742
Protein Refseq	NP_005733
MIM	611099
UniProt ID	Q15084
Chromosome Location	2p25.1
Pathway	Activation of Chaperone Genes by XBP1(S), organism-specific biosystem; Activation of Chaperones by IRE1alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem; Unfolded Protein Response, organism-specific biosystem;
Function	electron carrier activity; isomerase activity; protein disulfide isomerase activity; protein disulfide oxidoreductase activity;