

## Active Recombinant Human PDIA4 protein, His-tagged

Cat. No. PDIA4-21H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PDIA4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	PDIA4, also known as ERP72, is an endoplasmic reticulum luminal protein that is both a stress protein and a member of the protein disulfide isomerase family of proteins. It is involved in the catalysis of protein-S-S-bond rearrangement. PDIA3 and PDIA4 act as proteases, protein disulfide isomerases, phospholipases or a combination of these.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl, 1mM DTT and 10% glycerol
<b>Bio-activity</b>	Specific activity >10 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.
<b>Molecular Mass</b>	72.9 kDa (646aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEDD DEEEDDLEVK EENGVLVLND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPIPVAK IDATSASVLA SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTPPPEVT LVLTKENFDE VVNDADIILV

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EFYAPWCGHC KKLAPYEYKA AKELSKRSPP IPLAKVDATA ETDLAKRFDV  
 SGYPTLKIFR KGRPYDYNGP REKYGIVDYM IEQSGPPSKE ILTLKQVQEF  
 LKDGDDVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT FSTEIAKFLK  
 VSQGQLVVMQ PEKFQSKYEP RSHMMDVQGS TQDSAIFKDFV LKYALPLVGH  
 RKVSNDAKRY TRRPLVVVYY SVDFSFYRA ATQFWRSKVL EVAKDFPEYT  
 FAIADEEDYA GEVKDLGLSE SGEDVNAAIL DESGKKFAME PEEFSDTLR  
 EFVTAFKKGK LKPVIKSQPV PKNKGPVKV VVGKTFDSIV MDPKDVDLIE  
 FYAPWCGHCK QLEPVYNLA KKYKGQKGLV IAKMDATAND VPSDRYKVEG  
 FPTIYFAPSG DKKNPVKFEG GDRDLEHLSK FIEEHATKLS RTKEEL

**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** PDIA4 protein disulfide isomerase family A, member 4 [ Homo sapiens ]

**Official Symbol** PDIA4

**Synonyms** PDIA4; protein disulfide isomerase family A, member 4; protein disulfide isomerase associated 4; protein disulfide-isomerase A4; ERP70; ERP72; ER protein 70; ER protein 72; protein disulfide isomerase-associated 4; endoplasmic reticulum resident protein 70; endoplasmic reticulum resident protein 72; protein disulfide isomerase related protein (calcium-binding protein, intestinal-related); ERp-72;

**Gene ID** 9601

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<b>mRNA Refseq</b>	NM_004911
<b>Protein Refseq</b>	NP_004902
<b>MIM</b>	
<b>UniProt ID</b>	P13667
<b>Chromosome Location</b>	7q35
<b>Pathway</b>	Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem; Vibrio cholerae infection, organism-specific biosystem; Vibrio cholerae infection, conserved biosystem;
<b>Function</b>	electron carrier activity; isomerase activity; protein disulfide isomerase activity; protein disulfide oxidoreductase activity;

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