Active Recombinant Human PDIA4 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human PDIA4 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
Description	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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl, 1mM DTT and 10% glycerol
Bio-activity	Specific activity >10 A650/cm/min/mg. Enzymatic activitywas confirmed by measuring the aggregation of insulin in the presence of DTT.
Molecular Mass	72.9 kDa (646aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEEDD DEEEDDLEVK EENGVLVLND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPIPVAK IDATSASVLA SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTPPPEVT LVLTKENFDE VVNDADIILV

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	EFYAPWCGHC KKLAPEYEKA AKELSKRSPP IPLAKVDATA ETDLAKRFDV SGYPTLKIFR KGRPYDYNGP REKYGIVDYM IEQSGPPSKE ILTLKQVQEF LKDGDDVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT FSTEIAKFLK VSQGQLVVMQ PEKFQSKYEP RSHMMDVQGS TQDSAIKDFV LKYALPLVGH RKVSNDAKRY TRRPLVVVYY SVDFSFDYRA ATQFWRSKVL EVAKDFPEYT FAIADEEDYA GEVKDLGLSE SGEDVNAAIL DESGKKFAME PEEFDSDTLR EFVTAFKKGK LKPVIKSQPV PKNNKGPVKV VVGKTFDSIV MDPKKDVLIE FYAPWCGHCK QLEPVYNSLA 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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mRNA Refseq	NM_004911
Protein Refseq	NP_004902
MIM	
UniProt ID	P13667
Chromosome Location	7q35
Pathway	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;
Function	electron carrier activity; isomerase activity; protein disulfide isomerase activity; protein disulfide oxidoreductase activity;

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