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# Recombinant human PDIA4 protein

Catalog Number: ATGP0686

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
21-645aa

**UniProt No.**
P13667

**NCBI Accession No.**
NP_004902

**Alternative Names**
Protein disulfide-isomerase A4, Endoplasmic reticulum resident protein 72, ERP70, ERP72, Protein disulfide-isomerase A4

## PRODUCT SPECIFICATION

**Molecular Weight**
72.9 kDa (646aa) confirmed by MALDI-TOF

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M Nacl, 1mM DTT, 10% glycerol

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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. Recombinant human PDIA4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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**Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEEDD DEEEDDLEVK EENGVLVLND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPIPVAK IDATSASVLA SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTPPPEVT LVLTKENFDE VVNDADIILV 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

**General References**

Thomas M., et al. (2010) Synapse. 64(8):579-93.
Joo JH., et al. (2007) Cancer Res. 67(16):7929-36.

## DATA

**SDS-PAGE**


15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.