

Recombinant human PDIA4 protein

Catalog Number: ATGP3138

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-645aa

UniProt No.

P13667

NCBI Accession No.

NP_004902.1

Alternative Names

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

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 0.1 M NaCl, 1mM DTT and 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity > 5 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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

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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.

Amino acid Sequence

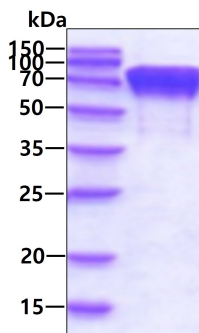
<MGSSHHHHHH SGLVPRGSH M>VAGAEGPDE DSSNRENAIE DEEEEEEDD DEEEDDLEVK EENGVLVIND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPPIPAK IDATSASVLA SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTPPEVT LVLTKEFDE VVNDADIILV EFYAPWCGHC KKLAPYEKA AKELSKRSP IPLAKVDATA ETDLAKRFDV SGYPTLKIFR KGRPYDNGP REKYGIVDYM IEQSGPPSKE ILTLKQVQEF LKDGDDVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT FSTEIAKFLK VSQGQLVVMQ PEKFSKYEP RSHMMDVQGS TQDSAIDKFV LKYALPLVGH RKVSNDAKRY TRRPLVVVY SVDFSFYRA ATQFWRKVL EVAKDFPEYT FAIADEEDYA GEVKDLGLSE SGEDVNAAIL DESGKKFAME PEEFSDTLR EFVTAFKKGK LKPVKSQPV PKNNKGPVKV VVGKTFDSIV MDPKDVLIIE FYAPWCGHCK QLEPVYNLSA KKYKGQGLV IAKMDATAND VPSDRYKVEG FPTYFAPSG 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



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