

## 32-6875: PDIA4 Human, Active

**Application :** Functional Assay

**Alternative Name :** Endoplasmic reticulum resident protein 72, ERP70, ERP72.

### Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

PDIA4 is an endoplasmic reticulum luminal protein that is a stress protein as well as a member of the protein disulfide isomerase family of proteins. PDIA4 participates in the catalysis of protein-S-S-bond rearrangement. PDIA4 and PDIA3 function as proteases, protein disulfide isomerases, phospholipases or an arrangement of these.

PDIA4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 646 amino acids (21-645 a.a.) and having a molecular weight of 72.9kDa. The PDIA4 is fused to 21 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** The PDIA4 1mg/ml protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEDD DEEEDDLEVK  
EENGVLVND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPPIPAK IDATSASVLA  
SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTTPPEVT LVLTKENFDE VVNDADIILV  
EFYAPWCGHC KKLAPYEKA AKELSKRSP IPLAKVDATA ETDLAKRFDV SGYPTLKIFR KGRPYDYNGP  
REKYGIVDYM IEQSGPPSKE ILTLKQVQEF LKDGDDVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT  
FSTEIAKFLK VSQGQLVVMQ PEKFSQKYEP RSHMMDVQGS TQDSAIKDFV LKYALPLVGH RKVSNDKRY  
TRRPLVVVY SVDFSFYRA ATQFWRKVL EVAKDFPEYT FAIADEEDYA GEVKDLGLSE SGEDVNAAIL  
DESGKKFAME PEEFSDTLR EFVTAFKKGK LKPVKSQPV PKNNKGPVKV VVGKTFDSIV MDPKKDVLIE  
FYAPWCGHCK QLEPVYNSLA KKYKGQKGLV IAKMDATAND VPSDRYKVEG FPTIYFAPSG DKKNPVKFEG  
GDRDLEHLSK FIEEHATKLS RTKEEL.

### Application Note

Specific activity > 10 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.