

## PDIA4 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71113
<b>Synonyms:</b>	Protein Disulfide-Isomerase A4; Endoplasmic Reticulum Resident Protein 70; ER Protein 70; Erp70; Endoplasmic Reticulum Resident Protein 72; ER Protein 72; ERp-72; ERp72; PDIA4; ERP70; ERP72
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P13667 (V21-L645)
<b>Gene ID:</b>	9601
<b>Molecular Weight:</b>	Approximately 75.0 kDa

### PROPERTIES

#### AA Sequence

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V A G A E G P D E D   S S N R E N A I E D   E E E E E E E D D D   E E E D D L E V K E
E N G V L V L N D A   N F D N F V A D K D   T V L L E F Y A P W   C G H C K Q F A P E
Y E K I A N I L K D   K D P P I P V A K I   D A T S A S V L A S   R F D V S G Y P T I
K I L K K G Q A V D   Y E G S R T Q E E I   V A K V R E V S Q P   D W T P P P E V T L
V L T K E N F D E V   V N D A D I I L V E   F Y A P W C G H C K   K L A P E Y E K A A
K E L S K R S P P I   P L A K V D A T A E   T D L A K R F D V S   G Y P T L K I F R K
G R P Y D Y N G P R   E K Y G I V D Y M I   E Q S G P P S K E I   L T L K Q V Q E F L
K D G D D V I I I G   V F K G E S D P A Y   Q Q Y Q D A A N N L   R E D Y K F H H T F
S T E I A K F L K V   S Q G Q L V V M Q P   E K F Q S K Y E P R   S H M M D V Q G S T
Q D S A I K D F V L   K Y A L P L V G H R   K V S N D A K R Y T   R R P L V V V Y Y S
V D F S F D Y R A A   T Q F W R S K V L E   V A K D F P E Y T F   A I A D E E D Y A G
E V K D L G L S E S   G E D V N A A I L D   E S G K K F A M E P   E E F D S D T L R E
F V T A F K K G K L   K P V I K S Q P V P   K N N K G P V K V V   V G K T F D S I V M
D P K K D V L I E F   Y A P W C G H C K Q   L E P V Y N S L A K   K Y K G Q K G L V I
A K M D A T A N D V   P S D R Y K V E G F   P T I Y F A P S G D   K K N P V K F E G G
D R D L E H L S K F   I E E H A T K L S R   T K E E L

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**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping**

Shipping with dry ice.

**DESCRIPTION****Background**

PDIA4 plays a crucial role as a constituent of a sizable chaperone multiprotein complex, collaborating with DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA6, PPIB, SDF2L1, and UGGT1, with trace amounts of ERP29 present. Notably absent or present in minimal quantities are CALR and CANX. This complex serves as a dynamic assembly of molecular chaperones, orchestrating intricate cellular processes. Additionally, PDIA4 is an integral component of another complex alongside CRELD2, MANF, and MATN3, indicating its versatile engagement in diverse molecular networks. The interplay within these complexes highlights the significance of PDIA4 in maintaining cellular homeostasis and supporting various biological functions.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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