

## PDIA6 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71193
<b>Synonyms:</b>	Protein Disulfide-Isomerase A6; Endoplasmic Reticulum Protein 5; ER Protein 5; ERp5; Protein Disulfide Isomerase P5; Thioredoxin Domain-Containing Protein 7; PDIA6; ERP5; P5; TXNDC7
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q15084 (L20-L440)
<b>Gene ID:</b>	10130
<b>Molecular Weight:</b>	Approximately 52.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> LYSSSDDVIE    LTPSNFNREV    IQSDSLWLVE    FYAPWCGHCQ RLTPEWKKAA    TALKDVVKVG    AVDADKHHS L    GGQYGVQGF P TIKIFGSNKN    RPEDYQGGRT    GE AIVDAALS    ALRQLVKDR L GGRSGGYSSG    KQGRSDSSSK    KDVI ELTDDS    FDKNVLDSE D VWMVEFYAPW    CGHCKNLEPE    WAAAA SEVKE    QTKGKVKLA A VDATVNQVLA    SRYGIRGFPT    IKIFQKGESP    VDYDGGRTS R DIVSRALDLF    SDNAPPELL    EIINEDIAKR    TCEEHQLCV V AVLPHILDTG    AAGRNSYLEV    LLKLADKYKK    KMWGWLWTE A GAQSELETAL    GIGGFYPAM    AA INARKMKF    ALLKGSFSE Q GINEFLRELS    FGRGSTAPVG    GGAFTIVER    EPWDGRDGE L PVEDDIDLSD    VELDDLKDE    L </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Shipping with dry ice

### DESCRIPTION

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**Background**

The PDIA6 protein exhibits diverse functions, acting as a chaperone that inhibits the aggregation of misfolded proteins, thereby contributing to protein quality control. Moreover, it negatively regulates the unfolded protein response (UPR) by binding to UPR sensors like ERN1, leading to the inactivation of ERN1 signaling. Additionally, PDIA6 may modulate the UPR through the EIF2AK3 UPR sensor. Beyond its role in protein homeostasis, PDIA6 plays a significant role in platelet aggregation and activation induced by various agonists, such as convulxin, collagen, and thrombin. These multifaceted functions underscore the importance of PDIA6 in cellular processes related to protein folding, quality control, and platelet activation. Further research is needed to unravel the specific molecular mechanisms underlying these diverse functions, providing insights into the broader regulatory roles of PDIA6 in cellular physiology.

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

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