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**Product Data Sheet**


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Product Name: PDIA4 Human, Active

Cat. No.: GP22063

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Endoplasmic reticulum resident protein 72; ERP70; ERP72.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEDD  DEEEDDLEVK EENGVLVLND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP  EYEKIANILK DKDPPIPVAK IDATSASVLA SRFDVSGYPT IKILKKGQAV  DYEGSRTQEE IVAKVREVSQ PDWTPPEVT LVLTKENFDE VVNDADIILV  EFYAPWCGHC KKLAPYEYKA AKELSKRSPP IPLAKVDATA ETDLAKRFDV  SGYPTLKIFR KGRPYDYNGP REKYGIVDYM IEQSGPPSKE ILTLKQVQEF  LKDGDVVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT FSTEIAKFLK  VSQGQLVVMQ PEKFSQKYEP RSHMMDVQGS TQDSAICKDFV LKYALPLVGH  RKVSNDKRY TRRPLVVVYY SVDFSFYRA ATQFWRSKVL EVAKDFPEYT  FAIADEEDYA GEVKDLGLSE SGEDVNAIL DESGKKFAME PEEFSDTLR  EFVTAFKKGK LKPVIKSQPV PKNNKGPVKV VVGKTFDSIV MDPKKDVLIE  FYAPWCGHCK QLEPVYNLA KKYKGQKGLV IAKMDATAND VPSDRYKVEG  FPTIYFAPSG DKKNPVKFEG GDRDLEHLSK FIEEHATKLS RTKEEL.</p>		
Formulation	The PDIA4 1mg/ml protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.		

**Introduction**

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.

**Biological Activity**

Specific activity > 10 A650/cm/min/mg. Enzymatic activity was confirmed by measuring

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

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the aggregation of insulin in the presence of DTT.

### Stability

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.

### Background

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.

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