

Protein Disulfide Isomerase A4 Human Recombinant, Active

Item Number	rAP-1230
Synonyms	Endoplasmic reticulum resident protein 72, ERP70, ERP72.
Description	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.
Uniprot Accession Number	P13667
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MVAGAEGPDE DSSNRENAIE DEEEEEEDD DEEEDDLEVK EENGVLVLND ANFDNFVADK DTVLLEFYAP WCGHCKQFAP EYEKIANILK DKDPPIPVAK IDATSASVLA SRFDVSGYPT IKILKKGQAV DYEGSRTQEE IVAKVREVSQ PDWTPPEVT LVLTKENFDE VVNDADIILV EFYAPWCGHC KKLAPYEYKA AKELSKRSPP IPLAKVDATA ETLAKRFDV SGYPTLKIFR KGRPYD- YNGP REKYGIVDYM IEQSGPPSKE ILTLKQVQEF LKDGDDVIII GVFKGESDPA YQQYQDAANN LREDYKFHHT FSTEIAKFLK VSQGQLVVMQ PEKFSKYEP RSHMMDVQGS TQDSA IKDFV LKYALPLVGH RKVSNDAKRY TRRPLVVVYY SVDFSFYDRA ATQFWRSKVL EVAKDFPEYT FAI- ADEEDYA GEVKDLGLSE SGEDVNAAIL DESGKKFAME PEEFSDTLR EFVTAFKKGK LKPVIKSQPV
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	The PDIA4 1mg/ml protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity > 10 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**