

Protein Disulfide Isomerase A6 Human Recombinant, Active

Item Number	rAP-1231
Synonyms	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.
Description	PDIA6 Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 442 amino acids (20-440 a.a.) and having a molecular mass of 48.5kDa. The PDIA6 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q15084
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MLYSSSDVI ELTPSNFNRE VIQSDSLWLV EYAPWCGHC QRLTPEWKKA ATALKDVVKV GAVDADKHHS LGGQYGVQGF PTIKIFGSNK NRPEDYQGGR TGEAIVDAAL SALRQLVKDR LGGRSGGYSS GKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWMVEFYAP WCGHCKNLEP EWAAAASEVK EQTGKGVKLA AVDATVNQVL ASRYGIRGFP TIKIFQKGES PVDYDGGTR SDIVSRALDL FSDNAPPEL LEIINEDIAK RTCEEHQLCV VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA
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 PDIA6 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 50mM NaCl. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity > 20 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**