

RPPB2083

## Product Information Protein Information

**Product SKU:**

RPPB2083

**Accession:**

P30101

**Host:**

Escherichia Coli.

**Protein description:**

PDIA3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 518 amino acids (25-505 a.a.) and having a molecular weight of 58.5 kDa. The PDIA3 is fused to 37 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Appearance:**

Sterile filtered colorless solution.

**Synonyms:**

ERp57, ERp60, ERp61, GRP57, GRP58, HsT17083, P58, PI-PLC, ER60, Protein disulfide-isomerase A3, Disulfide isomerase ER-60, Endoplasmic reticulum resident protein 60, ER protein 60, 58 kDa microsomal protein, Endoplasmic reticulum resident protein 57, ER protein 57, 58 kDa glucose-regulated protein, PDIA3.

**Formulation:**

The PDIA3 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.

**Purity:**

Greater than 95.0% as determined by SDS-PAGE.

**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.

**Amino Acid Sequence:**

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGMSDV LETDDNFES RISDTGSAGL  
MLVEFFAPWC GHCKRLAPEY EAAATRLKGI VPLAKVDCTA NTNTCNKYGV SGYPTLKIFR DGEEAGAYDG  
PRTADGIVSH LKKQAGPASV PLRTEEFKK FISKDASIV GFFDDSFSEA HSEFLKAASN LRDNYRFAHT  
NVESLVNEYD DNGEGILFR PSHLTNKFED KTVAYTEQKM TSGKIKKFIQ ENIFGICPHM TEDNKDLIQG  
KDLLIAYYDV DYEKNAKGSN YWRNRVMMVA KKFLDAGHKL NFAVASRKTf SHELSDFGLE STAGEIPVVA  
IRTAKGEKFV MQEEFSRDGK ALERFLQDYF DGNLKRYLKS EPIPESNDGP VKVVVAENFD EIVNNENKDV  
LIEFYAPWCG HCKNLEPKYK ELGKLSKDP NIVIAKMDAT ANDVPSPIYEV RGFPTIYFSP ANKKLNPKKY  
EGGRELSDFI SYLQREATNP PVIQEEKPKK KKAQEDL.

**Biological Activity:**

Specific activity > 20 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.