



# Recombinant Protein Technical Manual

**Recombinant Human ERP72/PDIA4 Protein (aa 1-641, His Tag)**  
RPES0268

## Product Data:

**Product SKU:** RPES0268

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** P13667

## Protein Information:

**Molecular Mass:** 71.6 kDa

**AP Molecular Mass:** 67 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Protein Disulfide-Isomerase A4; Endoplasmic Reticulum Resident Protein 70; ER Protein 70; ERp70; Endoplasmic Reticulum Resident Protein 72; ER Protein 72; ERp-72; ERp72; PDIA4; ERP70; ERP72

## Immunogen Information:

**Sequence:** Met 1-Thr641

## Background:

ERP72, also known as PDIA4, is an endoplasmic reticulum luminal protein which belongs to the protein disulfide isomerase family. ERP72 is a stress protein and participates in the catalysis of protein-S-S-bond rearrangement. Both of PDIA4 and PDIA3 function as proteases, protein disulfide isomerases, phospholipases or an arrangement of these. ERP72 compose part of a large chaperone multiprotein complex comprising CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX.