



Recombinant Protein Technical Manual  
Recombinant Human ERP57/PDIA3 Protein (His Tag)  
RPES3066

Product Data:

**Product SKU:** RPES3066

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P30101

Protein Information:

**Molecular Mass:** 55.3 kDa

**AP Molecular Mass:** 60 kDa

**Tag:** C-6His

**Bio-activity:**

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

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

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 7.5.

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

**Application:**

**Synonyms:** PDIA3 protein; Protein disulfide-isomerase A3; 58 kDa glucose-regulated protein; Disulfide isomerase ER-60; ER protein 57

## Immunogen Information:

**Sequence:** Ser25-Leu505

## Background:

PDIA3 protein is also known as Protein disulfide-isomerase A3. It is a protein that in humans is encoded by the PDIA3 gene. PDIA3 is an enzyme that belongs to the endoplasmic reticulum and interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. PDIA3 interacts with thiazide-sensitive sodium-chloride cotransporter in the kidney and is induced by glucose deprivation. PDIA3 is part of the major histocompatibility complex (MHC) class I peptide-loading complex (TAP1), which is important for formation of the final antigen conformation and export from the endoplasmic reticulum to the cell surface.