ERp72 (human), (recombinant) (His-tag)

Recombinant human ERp72 (His-tag), an ER-resident protein disulfide isomerase that assists in proper folding of newly synthesized glycoproteins and acts as a molecular chaperone in the ER.

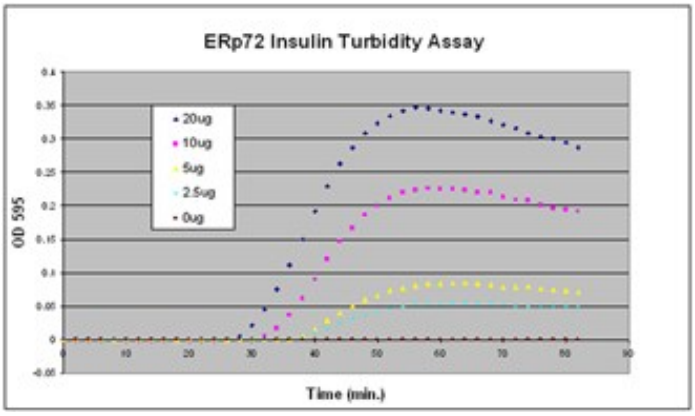
Endoplasmic reticulum protein (ERp) 72 is a member of the protein disulfide isomerase (PDI) family that is localized to the endoplasmic reticulum. It contains three repeats of the thioredoxin-like regions that is postulated to represent three independently-acting catalytic domains (CGHC) of PDI activity. ERp72 contains the sequence at its carboxyl terminus which serves as its ER retention signal. Together with other ER resident proteins such as BiP, GRP94, and PDI, they serve as the molecular chaperones for proper folding of newly translocated and glycolsylated proteins such as thyroglobulin (Tg) and human chorionic gonadotropin (hCG)-b. ERp72 expression is regulated by the level of misfolding proteins in the ER, as the amount of ERp72 increased in response to epithelial ischemia, a condition that perturbs the maturation of secretory proteins.

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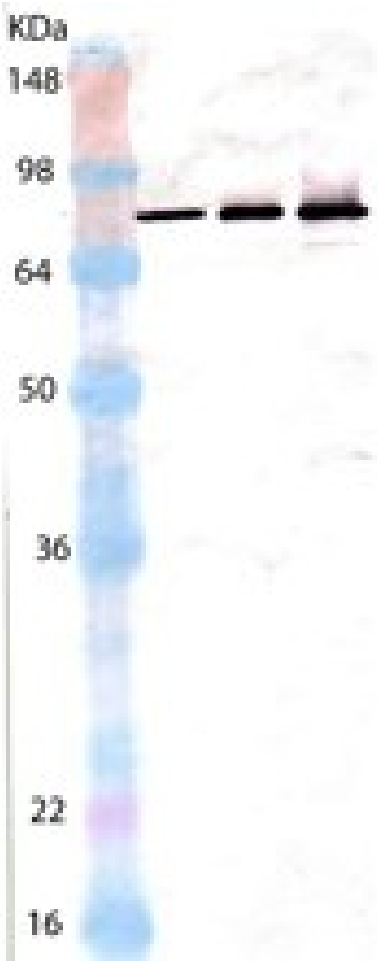
Ordering Information Order Online »

ADI-SPP-721-050	50µg
ADI-SPP-721-200	200µg

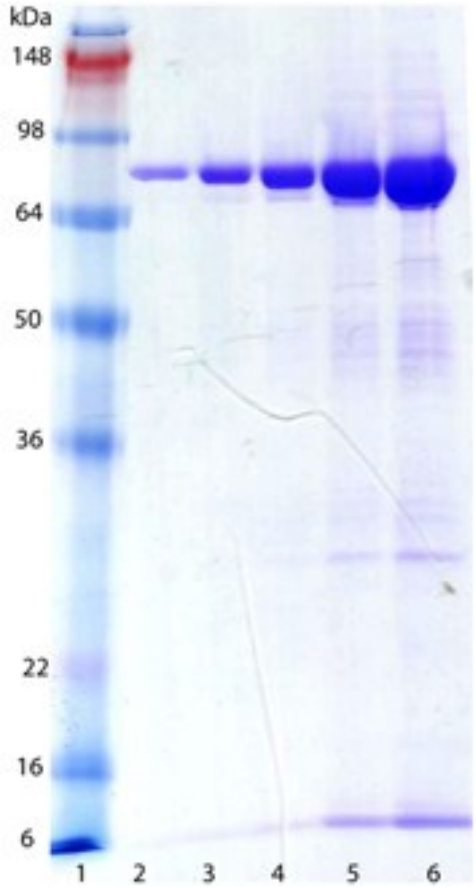
Manuals, SDS & CofA View Online »



Activity Assay: Varying amounts of ERp72 were incubated with insulin in the presence of DTT. Activity is measured as an increase in absorbance over time.



Western blot analysis of ERp72: Lane 1: MW marker, Lane 2: 25ng, Lane 3: 50ng, Lane 4: 100ng.



SDS PAGE analysis of ERp72: Lane 1: MW Marker, Lane 2: 0.25ug, Lane 3: 0.5ug, Lane 4: 1.0ug, Lane 5: 2.5ug, Lane 6: 5.0ug.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	PDIA4, Protein disulfide isomerase A4
Application Notes	Western blot control.
Formulation	Liquid. In 50mM TRIS, pH 7.5, containing 150mM sodium chloride and 1mM EDTA.
MW	~68kDa
Purity	≥85% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*. Human ERp72 is fused at the N-terminus to a His-tag.
UniProt ID	P13667

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