

## Product datasheet for **TP305940M**

### ERp57 (PDIA3) (NM\_005313) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein disulfide isomerase family A, member 3 (PDIA3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205940 representing NM_005313 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRLRRALFPGVALLLAAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEA  
ATRLKGVPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLR  
TEEFKFKFISDKDASIVGFFDSSFSEAHSEFLKAASNLRDNYRFAHTNVEISLVNEYDDNGEGILFRPSH  
LTNKFEDKTVAYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWR  
NRVMMVAKKFLDAGHKLNFASRKTFSHELSDFGLESTAGEIPVVAIRTAKEKGFVMQEEFSRDGKALE  
RFLQDYFDGNLKRYLKSEPIPESNDGPVKVVAENFDEIVNENKDVLIIFYAPWCGHCKNLEPKYKELG  
EKLSKDPNIVIAKMDATANDVPSPEYVRGFPPTIYFSPANKKLNPKKYEGGRELSDFISYLQREATNPPVI  
QEEKPKKKKKAQEDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	54.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005304</a>
<b>Locus ID:</b>	2923
<b>UniProt ID:</b>	<a href="#">P30101</a> , <a href="#">V9HVV3</a>
<b>RefSeq Size:</b>	3060
<b>Cytogenetics:</b>	15q15.3
<b>RefSeq ORF:</b>	1515
<b>Synonyms:</b>	ER60; ERp57; ERp60; ERp61; GRP57; GRP58; HEL-S-93n; HEL-S-269; HsT17083; P58; PI-PLC
<b>Summary:</b>	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. This protein also functions as a molecular chaperone that prevents the formation of protein aggregates. [provided by RefSeq, Dec 2016]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Antigen processing and presentation

### Product images:



Coomassie blue staining of purified PDIA3 protein (Cat# [TP305940]). The protein was produced from HEK293T cells transfected with PDIA3 cDNA clone (Cat# [RC205940]) using MegaTran 2.0 (Cat# [TT210002]).