

Product datasheet for PH305940

ERp57 (PDIA3) (NM_005313) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | PDIA3 MS Standard C13 and N15-labeled recombinant protein (NP_005304) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC205940 |
| Predicted MW: | 56.78 kDa |
| Protein Sequence: | >RC205940 representing NM_005313 Red=Cloning site Green=Tags(s) |

MRLRRLALFPGVALLLAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEAA
 ATRLKGI VPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLR
 TEEEFKKFISDKDASIVGFFDSSFSEAHSEFLKAASNLRDNYRFAHTNVESSLVNEYDDNGEGIIIFRPSH
 LTNKFEDKTVAYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWR
 NRVMVAKKFLDAGHKLNF AVASRKTFSHEL SDFGLESTAGEIPVVAIRTAKGEKFMQEEFSRDGKALE
 RFLQDYFDGNLKRYLKSEPIPESNDGPVKVVVAENFDEIVNENKDVLEIFYAPWCGHCKNLEPKYKELG
 EKLSKDPNIVIAKMDATANDVPSPYEVRGFPTIYFSPANKKLNPKKYEGGREL SDFISYLQREATNPPVI
 QEEKPKKKKKAQEDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_005304 |
| RefSeq Size: | 3060 |
| RefSeq ORF: | 1515 |



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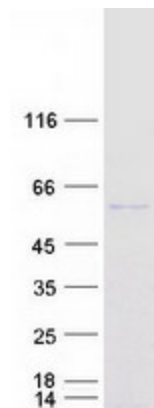
Synonyms: ER60; ERp57; ERp60; ERp61; GRP57; GRP58; HEL-S-93n; HEL-S-269; HsT17083; P58; PI-PLC
Locus ID: 2923
UniProt ID: [P30101](#), [V9HVV3](#)
Cytogenetics: 15q15.3

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: 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]).