

## Product datasheet for PH304041

### ERp72 (PDIA4) (NM\_004911) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PDIA4 MS Standard C13 and N15-labeled recombinant protein (NP_004902)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204041
Predicted MW:	72.9 kDa
Protein Sequence:	>RC204041 protein sequence Red=Cloning site Green=Tags(s)

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDEEEDDLEVEKEENGVLVLNDA  
NFDNFVADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLSRFDVSGYPTI  
KILKKGQAVDYEGSRTQEEIVAKVREVSQPDWTPPEVTLVLTENFDEVVNDADIILVEFYAPWCGHCK  
KLAPEYEKAAKELSKRSPIPLAKVDATAETDLAKRFDVSGYPTLKIIFRKGOPYDYNGPREKYGIVDYMI  
EQSGPPSKEILTLKQVQEFKLDGDDVIIIGVFKGESDPAYQQYQDAANLREDYKFHHTFSTEIAKFLKV  
SQGQLVVMQPEKQSKYEPRSHMMDVQGSTQDSAIAKDFVLKYALPLVGHKVSNDKRYTRRPLVVVYYS  
VDFSFDYRAATQFWRKVLVAKDFPEYTFIAIDEEDYAGEVKDLGLSEGEDVNAAILDESGKKFAMEP  
EEFSDSTLREFVTAFFKKGKLPVKSQPVKNNKGPVKKVVVVGKTFDSIVMDPKKDVLIIEFYAPWCGHCKQ  
LEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGFPTIYFAPSGDKKNPVKFEFGDRDLEHLSKF  
IEEHATKLSRTKEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u><a href="#">NP_004902</a></u>
RefSeq Size:	2970



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RefSeq ORF: 1935

Synonyms: ERp-72; ERP70; ERP72

Locus ID: 9601

UniProt ID: [P13667](#), [A0A090N8Y2](#)

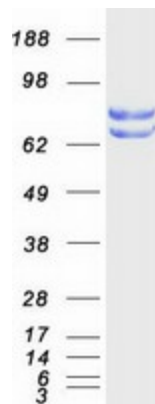
Cytogenetics: 7q36.1

**Summary:** This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, three catalytically active thioredoxin (TRX) domains, two TRX-like domains and a C-terminal ER-retention sequence. This protein, when bound to cyclophilin B, enhances the rate of immunoglobulin G intermolecular disulfide bonding and antibody assembly. [provided by RefSeq, Dec 2016]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Vibrio cholerae infection

### Product images:



Coomassie blue staining of purified PDIA4 protein (Cat# [TP304041]). The protein was produced from HEK293T cells transfected with PDIA4 cDNA clone (Cat# [RC204041]) using MegaTran 2.0 (Cat# [TT210002]).