

# Recombinant Human PDIA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PDIA2-2676H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PDIA2 MS Standard C13 and N15-labeled recombinant protein (NP_006840) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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, two catalytically active thioredoxin (TRX) domains, two TRX-like domains and a C-terminal ER-retention sequence. The protein plays a role in the folding of nascent proteins in the endoplasmic reticulum by forming disulfide bonds through its thiol isomerase, oxidase, and reductase activity. The encoded protein also possesses estradiol-binding activity and can modulate intracellular estradiol levels. |
| <b>Molecular Mass</b>   | 58 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSRQLLPVLLLLLLLRASCPWGQEQGARSPSEEPPEEEIPKEDGILVLSRHTLGLALR<br>EHPALLVEFYAPWCGHCQALAPEYSKAAAVLAAESMVVTLAKVDGPAQRELAEEFG<br>VTEYPTLKFFRNGNRTHPEEYTGPRDAEGIAEWLRRRVGPSAMRLEDEAAAQALIG<br>GRDLVVIGFFQDLQDEDEVATFLALAQDALDMTFGLTDRPRLFQQFGLTKD TVVLFFK<br>FDEGRADFPVDEELGLDLGDLRFLVTHSMRLVTEFNSQTSAKIFAARILNHLLLFVN                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QTLAAHRELLAGFGGEAAPRFRGQVLFVVVDVAADNEHVLQYFGLKAEAAPTLRLVNL  
ETTKKYAPVDGGPVTAASITAFCHAVLNGQVKPYLLSQEIPPDWDQRPVKTLVGKNF  
EQVAFDETKNVFVKFYAPWCTHCKEMAPAWELAKEYQDHEDIIIAELDATANELDA  
FAVHGFPTLKYFPAGPGRKVIEYKSTRDLETFSKFLDNGGVLPTTEEPPEEPAAPFPE  
PPANSTMGSKEELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** PDIA2 protein disulfide isomerase family A member 2 [ Homo sapiens (human) ]

**Official Symbol** PDIA2

**Synonyms** PDIA2; protein disulfide isomerase family A, member 2; PDIP, protein disulfide isomerase, pancreatic, protein disulfide isomerase associated 2; protein disulfide-isomerase A2; PDA2; PDI; PDIR; protein disulfide isomerase A2; Rho GDP dissociation inhibitor gamma; pancreatic protein disulfide isomerase; protein disulfide isomerase, pancreatic; protein disulfide isomerase-associated 2; pancreas-specific protein disulfide isomerase; PDIP;

**Gene ID** 64714

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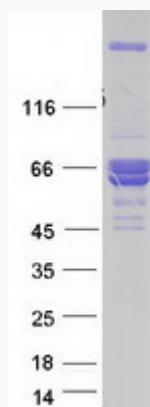
**mRNA Refseq** [NM\\_006849](#)

**Protein Refseq** [NP\\_006840](#)

**MIM** [608012](#)

**UniProt ID** [Q13087](#)

**SDS-PAGE**



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