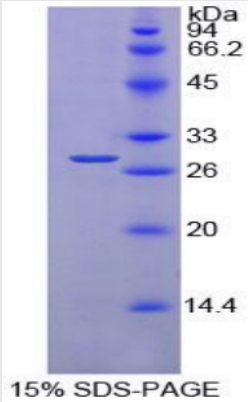
Protein Disulfide Isomerase A2 (PDIA2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein Disulfide Isomerase A2 (PDIA2), Recombinant Protein
Full Product Name	Recombinant Protein Disulfide Isomerase A2 (PDIA2)
Product Gene Name	PDIA2 recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- GILVL NHRTLSLALQ EHSALMVEFY APWCGHCKEL APEYSKAAAL LAAESAVVTL AKVDGPAEPE LTKEFEVVGY PTLKFFQNGN RTNPEEYAGP KTAEGIAEWL RRRVGPSATH LEDEEGVQAL MAKWDMVVIG FFQDLQGKDM ATFLALAKDA LDMTFGFTDQ PQLFEKFGLT KDTVVLFKKF DEGRADFPVD KETGLDLGDL SRFLVIHS
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PDIA2 (MBS2014452) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	APC-CY7 Conjugated Antibody: PDIA2 (MBS2055937) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	PE Conjugated Antibody: PDIA2 (MBS2055938) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	APC Conjugated Antibody: PDIA2 (MBS2055939) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	Cy3 Conjugated Antibody: PDIA2 (MBS2055940) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	FITC Conjugated Antibody: PDIA2 (MBS2055941) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	HRP Conjugated Antibody: PDIA2 (MBS2055942) Immunogen: PDIA2 (MBS2018391)
Matching Pairs	Biotin Conjugated Antibody: PDIA2 (MBS2093391) Immunogen: PDIA2 (MBS2018391)
Molecular Weight	27.4kDa
Chromosome Location	Chromosome: 17; NC_000083.6 (26195999..26199132, complement). Location: 17 A3.3; 17
3D Structure	ModBase 3D Structure for D3Z6P0
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Organism	Mus musculus (Mouse)

Expression System	Prokaryotic expression
Residues	Gly46~Ser258 (Accession # D3Z6P0) with two N-terminal Tags, His-tag and T7-tag
Subcellular Location	Endoplasmic reticulum lumen
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted Isoelectric Point	5.5
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for PDIA2 recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for PDIA2 recombinant protein	MBS2018391 is a recombinant protein targeting PDIA2. Also known as Recombinant Protein Disulfide Isomerase A2 (PDIA2). Host: E Coli.
Other Notes	Small volumes of PDIA2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of PDIA2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDIA2. It may not necessarily be applicable to this product.

NCBI GI #	124486724
NCBI GeneID	69191
NCBI Accession #	NP_001074539.1
UniProt Primary Accession #	D3Z6P0
UniProt Secondary Accession #	Q14AV9
UniProt Related Accession #	D3Z6P0
GenBank Nucleotide #	NM_001081070.1
NCBI Official Full Name	protein disulfide-isomerase A2
NCBI Official Synonym Full Names	protein disulfide isomerase associated 2
NCBI Official Symbol	Pdia2
NCBI Official Synonym Symbols	Pdip; Pdipl; AI661267; 1810041F13Rik
UniProt Protein Name	Protein disulfide-isomerase A2

UniProt Synonym Protein Names	PDIp
Protein Family	Protein disulfide-isomerase
UniProt Gene Name	Pdia2
UniProt Synonym Gene Names	Pdip
UniProt Entry Name	PDIA2_MOUSE
NCBI Protein Information	protein disulfide-isomerase A2; protein disulfide isomerase, pancreatic; protein disulfide isomerase (pancreas) like
UniProt Comments for PDIA2	PDIA2: Acts as an intracellular estrogen-binding protein. May be involved in modulating cellular levels and biological functions of estrogens in the pancreas. May act as a chaperone that inhibits aggregation of misfolded proteins. Belongs to the protein disulfide isomerase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum; EC 5.3.4.1; Isomerase Cellular Component: endoplasmic reticulum Molecular Function: protein disulfide isomerase activity; isomerase activity; lipid binding; peptidyl-proline 4-dioxygenase activity; steroid binding Biological Process: protein folding; cell redox homeostasis
Research Articles on PDIA2	**1.** Rotavirus-protein disulfide isomerase interaction was demonstrated in vitro as well as inMA104 cells and intestinal villi from suckling mice.
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