

Recombinant Human Protein Disulfide Isomerase Family A, Member 2

Cat. No. PDIA2-1660H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDIA2 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 508 amino acids and having a molecular mass of 57.1 kDa.
Species	Human
Source	E.coli
Description	PDIA2 constitute a family of structurally related enzymes which catalyze disulfide bonds formation, reduction, or isomerization of newly synthesized proteins in the lumen of the endoplasmic reticulum. Human Protein Disulfide Isomerase is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. PDIA2 has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro.
Biological Activity	Recombinant PDIA2 is biological active. Reductase activity is $1.0 \times 10^3 \Delta 650\text{nm}/\text{min}^{-2}$, by measuring the turbidity increase at 650 nm due to insulin reduction. The activity is expressed as the ratio of the slope of a linear part of the turbidity curve to the lag time. Isomerase activity is $0.5 \mu\text{mol active RNase A min}^{-1} \mu\text{mol PDIA2}$, according to the re-activation of reduced and denatured RNase A.
Molecular Weight	57.1 kDa
Form	Lyophilized powder.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Endotoxin Level	<0.1 ng/μg
Appearance	Lyophilized protein
Purity	≥95% by SDS-PAGE and ≥95% by HPLC
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted PDI should be stored in working aliquots at -20°C. For long-term storage, it is recommended to add carrier protein (0.1% HAS or BSA).

GENE INFORMATION

Gene Name	PDIA2 protein disulfide isomerase family A, member 2 [Homo sapiens]
Official Symbol	PDIA2
Synonyms	PDIA2; protein disulfide isomerase family A, member 2; PDI; PDA2; PDIP; PDIR; protein disulfide-isomerase A2; OTTHUMP00000067350; OTTHUMP00000197166; 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
Gene ID	64714
mRNA Refseq	NM_006849
Protein Refseq	NP_006840
MIM	608012
UniProt ID	Q13087

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Chromosome Location	16p13.3
Pathway	Statin Pathway
Function	electron carrier activity; isomerase activity; isomerase activity; protein disulfide isomerase activity; protein disulfide oxidoreductase activity; steroid binding

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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