

Recombinant Human Protein Disulfide Isomerase Family A, Member 2, His-tagged

Cat. No. PDIA2-1814H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman PDIA2 is a single, non-glycosylated polypeptide chain containing 503amino acids and a N-terminal 6xHis tag.
Species	Human
Source	Human
Description	PDIA2constitute a family of structurally related enzymes which catalyze disulfidebonds formation, reduction, or isomerization of newly synthesized proteins inthe lumen of the endoplasmic reticulum (ER). They act also as chaperones, andare, therefore, part of a quality-control system for the correct folding ofthe proteins in the same subcellular compartment.
Form	Lyophilized from a0.2 µm sterile filtered solution of PBS, pH 7.0.
Purity	>95% by SDS-PAGEand HPLC analyses.
Sequence	MRGSGSHHHHHH-PDI
Molecular Weight	62.4 kDa
Biological Activity	Thiolprotein reductase activity is 1.0×10^{-3} , 650nm/min-2,determined by measuring the turbidity increase at 650 nm due to insulinreduction. The activity is expressed as the ratio of the slope of a linearpart of the turbidity curve to the lag time. Isomerase

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	activity is 0.5 μ mol active RNase A min ⁻¹ μ mol PDI-1, according to the reactivation of reduced and denatured RNase.
Endotoxin	< 0.1 ng/ μ g
Reconstitution	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.
Storage	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.
Official Symbol	PDIA2
Pathways	Statin pathway

GENE INFORMATION

Gene Name	PDIA2 protein disulfide isomerase family A, member 2 [Homo sapiens]
Synonyms	PDIA2; protein disulfide isomerase family A, member 2; PDI; PDA2; PDIP; PDIR; protein disulfide-isomerase A2; protein disulfide isomerase A2; Rho GDP dissociation inhibitor gamma; pancreatic protein disulfide isomerase; protein disulfide isomerase, pancreatic; protein disulfide isomerase-associated 2; PDIP; EC5.3.4.1
Gene ID	64714

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mRNA Refseq	NM_006849
Protein Refseq	NP_006840
MIM	608012
UniProt ID	Q13087
Chromosome Location	16p13.3
Function	protein disulfide isomerase activity; isomerase activity; protein binding; electron carrier activity; protein disulfide oxidoreductase activity; steroid binding

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