

Recombinant Human PDIA4, His-tagged

Cat. No. PDIA4-125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Protein Disulfide-Isomerase A4/PDIA4 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Val21-Leu645) of Human PDIA4 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	21-645 a.a.
Description	Protein Disulfide-Isomerase A4 (PDIA4) is an endoplasmic reticulum luminal protein that belongs to the protein disulfide isomerase family. Human PDIA4 is synthesized as a 625 amino acid precursor that contains a 20 amino acid signal sequence, and a 625 amino acid mature chain, including three thioredoxin domains. PDIA4 catalyzes the rearrangement of -S-S- bonds in proteins and is thought to be a deoxycytidine kinase. In addition, PDIA4 serves as a proteases protein disulfide isomerase, phospholipase or an arrangement of these.
AA Sequence	VAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNFV ADKDTVLE FYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDV SGYPTIKILKKGQAVD YEGSRTQEEIVAKVREVSQPDWTPPPEVTLVLTKENFDEVV NDADIILVEFYAPWCGHCKKLAPE YEKA AKELSKRSPPIPLAKVDATAETDLAKRFDV SGYPTLKIFRKGRPYDYNPREK

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	PDIA4 protein disulfide isomerase family A, member 4 [Homo sapiens(human)]
Official Symbol	PDIA4
Synonyms	PDIA4; ERP70; ERP72; ERp-72; protein disulfide isomerase family A, member 4; protein disulfide-isomerase A4; ER protein 70; ER protein 72; protein disulfide isomerase-associated 4; endoplasmic reticulum resident protein 70; endoplasmic reticulum resident protein 72; protein disulfide isomerase related protein (calcium-binding protein, intestinal-related); EC 5.3.4.1
Gene ID	9601
mRNA Refseq	NM_004911
Protein Refseq	NP_004902
UniProt ID	P13667
Chromosome Location	7q35
Pathway	Protein processing in endoplasmic reticulum; Thyroid hormone synthesis; Vibrio cholerae infection
Function	electron carrier activity; protein binding; protein disulfide isomerase activity

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