Recombinant Human PDIA3, His-tagged

Cat. No. PDIA3-26230TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ERp57 fused to a His tag at the N-terminus; 518 amino acids with tag, MWt 58.5kDa.
Species	Human
Source	E.coli
Description	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates.
Conjugation	HIS
Tissue specificity	Detected in the flagellum and head region of spermatozoa (at protein level).
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSDV LELTDDNFES RISDTGSAGL MLVEFFAPWC GHCKRLAPEY EAAATRLKGI VPLAKVDCTA NTNTCNKYGV SGYPTLKIFR DGEEAGAYDG PRTADGIVSH LKKQAGPASV PLRTEEEFKK FISDKDASIV GFFDDSFSEA HSEFLKAASN LRDNYRFAHT NVESLVNEYD DNGEGIILFR PSHLTNKFED KTVAYTEQKM TSGKIKKFIQ ENIFGICPHM TEDNKDLIQG KDLLIAYYDV DYEKNAKGSN YWRNRVMMVA KKFLDAGHKL NFAVASRKTF SHELSDFGLE STAGEIPVVA IRTAKGEKFV MQEEFSRDGK ALERFLQDYF DGNLKRYLKS EPIPESNDGP VKVVVAENFD EIVNNENKDV LIEFYAPWCG HCKNLEPKYK ELGEKLSKDP NIVIAKMDAT ANDVPSPYEV RGFPTIYFSP ANKKLNPKKY EGGRELSDFI SYLQREATNP PVIQEEKPKK KKKAQEDL
Sequence Similarities	Belongs to the protein disulfide isomerase family.Contains 2 thioredoxin domains.
Full Length	Full L.

GENE INFORMATION

Gene Name	PDIA3 protein disulfide isomerase family A, member 3 [Homo sapiens]
Official Symbol	PDIA3
Synonyms	PDIA3; protein disulfide isomerase family A, member 3; glucose regulated protein, 58kDa , GRP58, protein disulfide isomerase associated 3; protein disulfide-isomerase A3; ERp57; ERp60; ERp61; GRP57; HsT17083; P58; PI PLC;
Gene ID	2923

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mRNA Refseq	NM_005313
Protein Refseq	NP_005304
MIM	602046
Uniprot ID	P30101
Chromosome Location	15q15
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem;
Function	cysteine-type endopeptidase activity; electron carrier activity; isomerase activity; phospholipase C activity; protein binding;

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