

Recombinant Human PDIA3 protein

Cat. No. PDIA3-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDIA3 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	502
Description	Protein disulfide isomerases (PDIs) 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 (ER). They act also as chaperones, and are, therefore, part of a quality-control system for the correct folding of the proteins in the same subcellular compartment. PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro. Recombinant Human Protein Disulfide Isomerase is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. Recombinant PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.0.
Bio-activity	Isomerase Activity is 0.5 µmol active RNase A min-1 µmol PDI-1, according to the re-activation of reduced and denatured RNase A.
Molecular Mass	Approximately 56.6 kDa, a single non-glycosylated polypeptide chain containing 502

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amino acids. (MRGSGSHHHHHH-PDI).

AA Sequence

MRGSGSHHHHHHAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAP
EYAKAAGKLKAEGSEIRLAKVDATEESDLAQYGVRGYPTIKFFRNGDTASPKEYTA
GREADDIVNWLKKRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQA
AEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNNFEGEVTKENLLDFIKHNQ
LPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSD
HTDNQRILEFFGLKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLEGKIKP
HLMSQELPEDWDKQPVKVLVGKNFEDVAFDEKKNVFEFYAPWCGHCKQLAPIWD
KLGETYKDHENIVIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGF
KKFLESGGQDGAGDDDDLEDLEEAEPPDMEEDDDQKAVKDEL

Endotoxin

Less than 1 EU/g of rHuPDI as determined by LAL method.

Purity

>95% by SDS-PAGE and HPLC analysis.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

PDIA3

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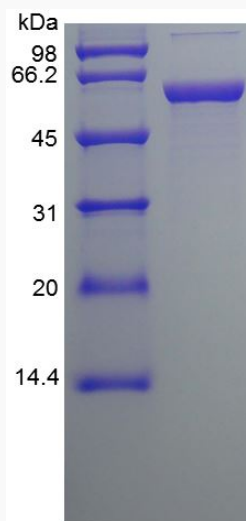
Official Symbol	PDIA3
Synonyms	PDIA3; protein disulfide isomerase family A, member 3; glucose regulated protein, 58kDa , GRP58, protein disulfide isomerase associated 3; protein disulfide-isomerase A3; ERp57; ERp60; ERp61; GRP57; HsT17083; P58; PI PLC; ER protein 57; ER protein 60; phospholipase C-alpha; 58 kDa microsomal protein; disulfide isomerase ER-60; endoplasmic reticulum P58; 58 kDa glucose-regulated protein; glucose regulated protein, 58kDa; protein disulfide isomerase-associated 3; endoplasmic reticulum resident protein 57; endoplasmic reticulum resident protein 60; ER60; GRP58; PI-PLC;
Gene ID	2923
mRNA Refseq	NM_005313
Protein Refseq	NP_005304
MIM	602046
UniProt ID	P30101

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SDS-PAGE of PDIA3-03H



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