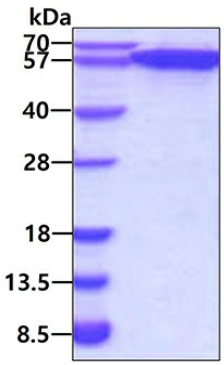
Bioactive

PDIA3 (Human) Recombinant Protein

Catalog # P7938 Size 100 ug

Applications



Specification

Product Description	Human PDIA3 (P30101, 25 a.a. - 505 a.a.) partial length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	SDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEAAATRLKGIVPLAKVDCTANT NTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFISDKDA SIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNEYDDNGEGIILFRPSHLTNKFEDKTV AYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWRNRVMMVA KKFLDAGHKLNFAVASRKTFSHELSDFGLESTAGEIPVVAIRTAKGEKFVMQEEFSRDGKALERF LQDYFDGNLKRYLKSEPIPESNDGPVKVVVAENFDEIVNNENKDVLIEFYAPWCGHCKNLEPKYK ELGEKLSKDPNIVIAKMDATANDVPSPYEVRGFPTIYFSPANKKLNPKKYEGGRELSDFISYLQREA TNPPVIQEEKPKKKKKAQEDL
Host	Escherichia coli
Theoretical MW (kDa)	58.5
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE

Activity	Specific activity is > 10 A650/cm/min/mg, was measured the aggregation of insulin in the presence of DTT.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (10% glycerol, 0.1 M NaCl, 1 mM DTT)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PDIA3

Entrez GeneID	2923
Protein Accession#	P30101
Gene Name	PDIA3
Gene Alias	ER60, ERp57, ERp60, ERp61, GRP57, GRP58, HsT17083, P58, PI-PLC
Gene Description	protein disulfide isomerase family A, member 3
Omim ID	602046
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	58 kDa microsomal protein|OTTHUMP00000041709|endoplasmic reticulum P58|glucose regulated protein, 58kDa|phospholipase C-alpha|protein disulfide isomerase-associated 3|protein disulfide-isomerase A3

Pathway

- Antigen processing and presentation

Disease

- Genetic Predisposition to Disease
- Prostatic Neoplasms