

Protein Disulfide Isomerase (PDI) Recombinant Protein | PDI recombinant protein

Recombinant Protein Disulfide Isomerase (PDI)

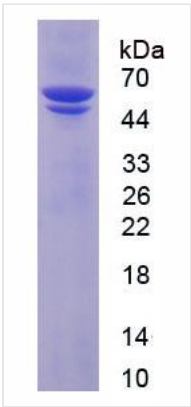
CATALOG # AAA134407	HOST E Coli	APPLICATIONS Immunoprecipitation, ELISA, Western Blot, SDS-Page
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PRODUCT SYNONYMS

Protein Disulfide Isomerase (PDI); Recombinant Protein Disulfide Isomerase (PDI); PDI recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95%
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Sequence	Thetargetp roteinisfu sedwithtwo N-terminal Tags,His-t agandGST-t ag,itssequ enceislist edbelow. MSPILGYW KIKGLVQPTR LLEYLEEKY EEHLYERDEG DKWRNKKFEL GLEFPNLPYY IDGDVKLTQS MAIRYIADK HNMLGGCPKE RAEISMLEGA VLDIRYGVSR IAYSKDFETL KVDFLSKLPE MLKMFEDRLC HKTYLNGDHV THPDFMLYDA LDVVLMDPM CLDAFPKLVC FKKRIEAIQ IDKYLKSSKY IAWPLQGWQA TFGGGDHPPK SDGSTSGSGH HHHHHSAGLV PRGSTAIGMK ETAAAKFERQ HMDSPDLGTL EVLFQGPLGS EF-FEGEVTK ENLLDFIKHN QLPLVIEFTE QTAPKIFGGE IKTHILLFLP KSVSDYDGKL SNFKTAAESF KGKILFIFID SDHTDNQRIL EFFGLKKEEC PAVRLITLEE EMTKYKPESE ELTAERITEF CHRFLGKIK PHLMSQELPE DWDKQPVKVL VGKNFEDVAF DEKKNVFVEF YAPWCGHCKQ LAPIWDLKGE TYKDHENIVI AKMDSTANEV EAVKVHSFPT LKFFPASADR TVIDYNGERT LDG
Sequence Length	508
Applicable Applications for PDI recombinant protein	IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE
Organism	Homo sapiens (Human)
Expression System	Prokaryotic expression
Residues	Phe216~Gly465 (Accession # P07237) with two N-terminal Tags, His-tag and GST-tag
Subcellular Location	Endoplasmic reticulum lumen. Melanosome. Cell membrane; Peripheral membrane protein
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted Isoelectric Point	5.6
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.



Sequence

	FEGEV	TKENLLDFIK	HNQLPLVIEF	TEQTAPKIFG
GEIKTHILLF	LPKSVSDYDG	KLSNFKTAAE	SFKGKILFIF	IDSQHTDNQR
ILEFFGLKKE	ECPAVRLITL	EEENTKYKPE	SEELTAERIT	EFCHRFLGK
IKPHLMSQEL	PEDWDKQPVK	VLVGKNFEDV	AFDEKKNVFW	EFYAPWCGHC
KQLAPIWDKL	GETYKDHENI	VIAKMDSTAN	EVEAVKVHSF	PTLKFFFPASA
DRTVIDYNGE	RTLDG			

SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	20070125
NCBI GeneID	5034
NCBI Accession #	NP_000909.2
NCBI GenBank Nucleotide #	NM_000918.3
UniProt Accession #	P07237; P30037; P32079; Q15205; Q6LDE5; B2RDQ2
Molecular Weight	60.8kDa
NCBI Official Full Name	protein disulfide-isomerase
NCBI Official Synonym Full Names	prolyl 4-hydroxylase, beta polypeptide
NCBI Official Symbol	P4HB
NCBI Official Synonym Symbols	DSI; GIT; PDI; PHDB; PDIA1; PO4DB; PO4HB; PROHB; ERBA2L; P4Hbeta
NCBI Protein Information	protein disulfide-isomerase; p55; procollagen hydroxylase; prolyl 4-hydroxylase subunit beta; collagen prolyl 4-hydroxylase beta; thyroid hormone-binding protein p55; glutathione-insulin transhydrogenase; cellular thyroid hormone-binding protein; protein disulfide isomerase-associated 1; protein disulfide isomerase/oxidoreductase; protein disulfide isomerase family A, member 1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide
UniProt Protein Name	Protein disulfide-isomerase
UniProt Gene Name	P4HB
UniProt Synonym Gene Names	ERBA2L; PDI; PDIA1; PO4DB; PDI
UniProt Entry Name	PDIA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.