

Disulfide Isomerase Active Protein | PDI active protein

Recombinant Human Protein Disulfide Isomerase

CATALOG #
AAA38241

HOST
E Coli

PRODUCT SYNONYMS

Disulfide Isomerase; Recombinant Human Protein Disulfide Isomerase; PDI Human; Protein Disulfide Isomerase Human Recombinant; Protein Disulfide Isomerase; PDI; EC 5.3.4.1; Prolyl 4-hydroxylase subunit beta; Cellular thyroid hormone-binding protein; p55; P4HB; ERBA2L; PDIA1; PO4DB; DSI; GIT; PHDB; PO4HB; PROHB; P4Hbeta; PDI active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by a) Analysis by RP-HPLC. b) Analysis by SDS-PAGE.
Form/Format	The PDI protein (1mg/ml)solution was lyophilized from PBS pH-7. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeMet-Leu -Arg-Arg-A la
Sequence Length	508
Isomerase Activity	0.5 umol active RNase A min-1 umol PDI-1. According to the re-activation of reduced and denatured RNase A (Lyles, M. M. and Gilbert, H. F. (1991) Biochemistry 30, 613-619).
Reductase Activity	1.0×10^{-3} Delta 650nm/ min ⁻² . By measuring the turbidity increase at 650 nm due to insulin reduction (Holmgren, A. (1979) J. Biol. Chem. 254, 96279632). The activity is expressed as the ratio of the slope of a linear part of the turbidity curve to the lag time (Martínez-Galisteo, E., Padilla, C. A., Garcia-Alfonso, C., López-Barea, J., and Barcena, J. A. (1993) Biochimie (Paris) 75, 803809).
Solubility	It is recommended to reconstitute the lyophilized PDI in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized Protein Disulfide Isomerase although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Human PDI should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PDI active protein	PDI Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 503 amino acids and having a molecular mass of 62.4 kDa. The PDI is fused to a 12 amino acid His tag (515 a.a. total) at N-terminal and purified by proprietary chromatographic techniques.
Product Categories/Family for PDI active protein	Enzymes; Isomerase

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
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; cellular thyroid hormone-binding protein; collagen prolyl 4-hydroxylase beta; glutathione-insulin transhydrogenase; p55; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide; prolyl 4-hydroxylase subunit beta; protein disulfide isomerase family A, member 1; protein disulfide isomerase-associated 1; protein disulfide isomerase/oxidoreductase; procollagen hydroxylase; thyroid hormone-binding protein p55
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.

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Online datasheet: <https://www.aaabiotech.com/e-coli-pdi-active-protein/disulfide-isomerase/38241>