10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Protein Disulfide Isomerase (PDI), human recombinant protein

Protein Disulfide Isomerase
Catalog # PBV11205r

Specification

Protein Disulfide Isomerase (PDI), human recombinant protein - Product info

Primary Accession	P07237
Calculated MW	57.1 kDa KDa

Protein Disulfide Isomerase (PDI), human recombinant protein - Additional Info

Gene ID	5034
Gene Symbol	PDIA1

Other Names
Protein Disulfide Isomerase, Cellular thyroid hormone-binding protein, Prolyl 4-hydroxylase subunit beta, p55

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC; ≥95%
Recombinant	Yes

Application Notes
Reconstituted PDI should be stored in working aliquots at -20°C. For long-term storage, it is recommended to add carrier protein (0.1% HAS or BSA).

Format
Lyophilized protein

Storage
-20°C; Sterile filtered and lyophilized with no additives

Protein Disulfide Isomerase (PDI), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Protein Disulfide Isomerase (PDI), human recombinant protein - Images

Protein Disulfide Isomerase (PDI), human recombinant protein - Background

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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). Human Protein Disulfide Isomerase is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro. Recombinant Human PDI produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 508 amino acids and having a molecular mass of 57.1 kDa. The human PDI contains N-terminal 6xHis-tag and is purified by proprietary chromatographic techniques.

Protein Disulfide Isomerase (PDI), human recombinant protein - References

Pihlajaniemi T.,et al.EMBO J. 6:643-649(1987).
Cheng S.-Y.,et al.J. Biol. Chem. 262:11221-11227(1987).
Tasanen K.,et al.J. Biol. Chem. 263:16218-16224(1988).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.