

Recombinant human PDIA6 protein

Catalog Number: ATGP0773

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-440aa

UniProt No.

Q15084

NCBI Accession No.

NP_005733.1

Alternative Names

Protein disulfide-isomerase A6, ERP5, P5, TXNDC7

PRODUCT SPECIFICATION

Molecular Weight

48.5 kDa (442aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PDIA6 is a member of the protein disulfide isomerase (PDI). PDI is an enzyme in the endoplasmic reticulum in eukaryotes or periplasmic space of prokaryotes that catalyzes the formation and breakage of disulfide bonds between cysteine residues within proteins as they fold. PDIA6 function as a chaperone that inhibits aggregation of misfolded proteins. It plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin. Recombinant human PDIA6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

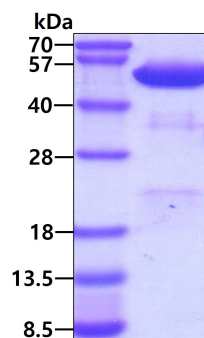
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GKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWMVEFYAP WCGHCKNLEP EWAAAASEVK EQTKGKVKLA
AVDATVNQVL ASRYGIRGFP TIKIFQKGES PVDYDGGRTS SDIVSRALDL FSDNAPPEL LEINEDIAK RTCEEHQLCV
VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA LGIGGFGYPA MAAINARKMK FALLKGSFSE
QGINEFLREL SFGRGSTAPV GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLKGD EL

General References

Jordan P.A., et al. (2005) Blood 105:1500-1507
Kikuchi M., et al. (2002) J. Biochem. 132:451-455

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.