NKMAXBio We support you, we believe in your research

Recombinant human PDIA6 protein

Catalog Number: ATGP3139

PRODUCT INFORMATION

Expression system
E.coli

Domain
20-440aa

UniProt No.
Q15084

NCBI Accession No.
NP_005733

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, 50mM NaCl, 2mM DTT and 10% glycerol

Purity
> 90% by SDS-PAGE

Biological Activity
Specific activity > 10 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

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

Recombinant human PDIA6 protein

Catalog Number: ATGP3139

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.

Amino acid Sequence

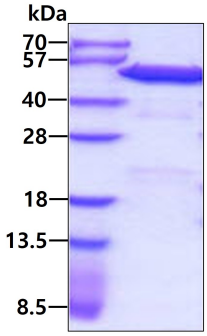
<MGSSHHHHHH SSGLVPRGSH M>LYSSSDDVI ELTPSNFNRE VIQSDSLWLV EFYAPWCGHC QRLTPEWKKA ATALKDVVKV GAVDADKHHS LGGQYGVQGF PTIKIFGSNK NRPEDYQGGR TGEAIVDAAL SALRQLVKDR LGGRSGGYSS GKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWMVEFYAP WCGHCKNLEP EWAAAASEVK EQTKGKVKLA AVDATVNQVL ASRYGIRGFP TIKIFQKGES PVDYDGGRTR SDIVSRALDL FSDNAPPPEL LEIINEDIAK RTCEEHQLCV VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA LGIGGFGYPA MAAINARKMK FALLKGSFSE QGINEFLREL SFGRGSTAPV GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLGKD 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.