

AR09712PU-L

Human PDIA6 / P5 (20-440, His-tag) - Purified

Alternate names:

ER protein 5, ERP5, Endoplasmic reticulum protein 5, Protein disulfide isomerase P5, Protein disulfide-isomerase A6, TXNDC7, Thioredoxin domain-containing protein 7

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q15084](#)

NCBI:

[NP_005733](#)

GeneID:

[10130](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90%

Buffer System: 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl

Description:

Recombinant Human PDIA6 protein, fused to *His-tag* at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MLYSSDDVI ELTPSNFNRE VIQSDSLWLV EFYAPWCGHC
QRLTPEWKKA ATALKDVVKV GAVDADKHHS LGGQYGVQGF PTIKIFGSNK NRPEDYQGGR
TGEAIVDAAL SALRQLVKDR LGGRSGGYSS GKQGRSDSSS KKDVIELTDD SFDKNVLDSE
DVWMVEFYAP WCGHCKNLEP EWAAAASEVK EQTKGKVKLA AVDATVNQVL ASRYGIRGFP
TIKIFQKGES PVDYDGGRTS SDIVSRALDL FSDNAPPEL LEIINEDIAK RTCEEHQLCV
VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGLWTE AGAQSELETA LGIGGGFYPA
MAAINARKMK FALLKGSFSE QGINEFLREL SFGRGSTAPV GGGAFPTIVE REPWDGRDGE
LPVEDDIDLS DVELDDLKGD EL

Molecular weight: 48.5 kDa (442aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

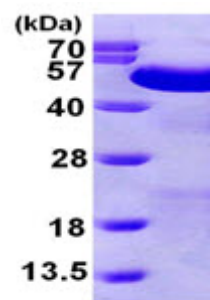
General Readings:

1. Jordan PA, Stevens JM, Hubbard GP, Barrett NE, Sage T, Authi KS, et al. A role for the thiol isomerase protein ERP5 in platelet function. Blood. 2005 Feb 15;105(4):1500-7. Epub 2004 Oct 5. PubMed PMID: 15466936.
2. Kikuchi M, Doi E, Tsujimoto I, Horibe T, Tsujimoto Y. Functional analysis of human P5, a protein disulfide isomerase homologue. J Biochem. 2002 Sep;132(3):451-5.

PubMed PMID: 12204115.

Pictures:

Recombinant human PDIA6, 20-440aa,
His-tagged



15% SDS-PAGE (3ug)