
Product Data Sheet

Product Name: PDIA6 Human, Active

Cat. No.: GP22065

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Protein disulfide-isomerase A6; Endoplasmic reticulum protein 5; ER protein 5; ERp5; Protein disulfide isomerase P5; Thioredoxin domain-containing protein 7; PDIA6; ERP5; P5; TXNDC7.

Amino Acid Sequence
 MGSSHHHHH SGLVPRGSH MLYSSDDVI ELTPSNFNRE VIQSDSLWLVEFYAPWCGHC QRLTPEWKKA ATALKDVVKVGAVDADKHHS LGGQYGVQGFPTIKIFGSNK NRPEDYQGGR TGEAIVDAAL SALRQLVKDR LGGRSGGYSSGKQGRSDSSS KKDVIELTDD SFDKNVLDSE DVWVMVEFYAPWCGHCKNLEP EWAAAASEVK EQTKGKVKLAAVDATVNQVL ASRYGIRGFTP TIKIFQKGES PVDYDGGRRTR SDIVSRALDL FSDNAPPEL LEIINEDIAKRTCEEHQLCV VAVLPHILDT GAAGRNSYLE VLLKLADKYK KKMWGWLWTE AGAQSELETA LGIGGFGYPA MAAINARKMKFALLKGSFSE QGINEFLREL SFGRGSTAPV GGGAFPTIVE REPWDGRDGE LPVEDDIDLS DVELDDLKGD EL.

Formulation The PDIA6 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 50mM NaCl.

Introduction

PDIA6 belongs to the protein disulfide isomerase family (PDI). PDIA6 is an enzyme in the endoplasmic reticulum in eukaryotes or periplasmic space of prokaryotes which catalyzes the formation and breakage of disulfide bonds between cysteine residues within proteins as they fold. PDIA6 functions as a chaperone that inhibits aggregation of misfolded proteins. PDIA6, also has a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin.

Biological Activity

Specific activity > 20 A650/cm/min/mg. Enzymatic activity was confirmed by measuring

Caution: Product has not been fully validated for medical applications. For research use only.

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the aggregation of INS in the presence of DTT.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PDIA6 Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 442 amino acids (20-440 a.a.) and having a molecular mass of 48.5kDa. The PDIA6 is purified by proprietary chromatographic techniques.

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