
Product Data Sheet

Product Name: PDIA3 Human, Active

Cat. No.: GP22060

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ERp57; ERp60; ERp61; GRP57; GRP58; HsT17083; P58; PI-PLC; ER60; Protein disulfide-isomerase A3; Disulfide isomerase ER-60; Endoplasmic reticulum resident protein 60; ER protein 60; 58 kDa microsomal protein; Endoplasmic reticulum resident protein 57; ER protein 57; 58 kDa glucose-regulated protein; PDIA3.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSDV LELTDDNFES RISDTGSAGL MLVEFFAPWC GHCKRLAPEY EAAATRLKGI VPLAKVDCTA NTNTCNKYGV SGYPTLKIFR DGEEAGAYDG PRTADGIVSH LKKQAGPASV PLRTEEFKK FISKDASIV GFFDDSFSEA HSEFLKAASN LRDNYRFAHT NVESLVNEYD DNGEGILFR PSHLTNKFED KTVAYTEQKM TSGKIKKFIQ ENIFGICPHM TEDNKDLIQG KDLLIAYYDV DYEKNAKGSN YWRNRVMMVA KKFLDAGHKL NFAVASRKTf SHELSDFGLE STAGEIPVVA IRTAKGEKFV MQEEFSRDGK ALERFLQDYF DGNLKRYLKS EPIPESNDGP VKVVVAENFD EIVNNENKDV LIEFYAPWCG HCKNLEPKYK ELGEKLSKDP NIVIAKMDAT ANDVSPYEV RGFPTIYFSP ANKKNPKKY EGGRELSDFI SYLQREATNP PVIQEEKPKK KKKAQEDL.		
Formulation	The PDIA3 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.		

Introduction

PDIA3 is an enzyme that belongs to the endoplasmic reticulum and interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. PDIA3 has protein disulfide isomerase activity. Complexes of lectins and PDIA3 mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. PDIA3 is expressed in the lumbar spinal cord from rats

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

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submitted to peripheral lesion during neonatal period. PDIA3 interacts with thiazide-sensitive sodium-chloride cotransporter in the kidney and is induced by glucose deprivation. PDIA3 is part of the major histocompatibility complex (MHC) class I peptide-loading complex (TAP1), which is important for formation of the final antigen conformation and export from the endoplasmic reticulum to the cell surface.

Biological Activity

Specific activity > 20 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin 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

PDIA3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 518 amino acids (25-505 a.a.) and having a molecular weight of 58.5 kDa. The PDIA3 is fused to 37 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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