

Product information



PDIA3, 25-505 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0462

Full Name: Protein disulfide-isomerase A3

NCBI Accession No.: NP_005304

Synonyms: ER60, ERp57, ERp60, ERp61, GRP57, GRP58, HsT17083, P58, PI-PLC

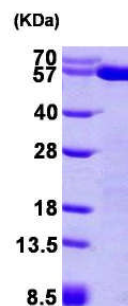
Description: PDIA3, also known as protein disulfide-isomerase A3, is a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. This protein has protein disulfide isomerase activity. PDIA3 is also part of the major histocompatibility complex (MHC) class I peptide-loading complex (TAP1), which is essential for formation of the final antigen conformation and export from the endoplasmic reticulum to the cell surface. Recombinant human PDIA3 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1 M NaCl, and 10% glycerol

Molecular Weight: 58.5 kDa (518aa)

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSDV LELTDNFES RISDTGSAGL MLVEFFAPWC GHCKRLAPEY EAAATRLKGI
VPLAKVDCTA NTNTCNKYGV SGYPTLKIFR DGEEAGAYDG PRTADGIVSH LKKQAGPASV PLRTEEEFKK FISDKDASIV GFFDDSFSEA
HSEFLKAASN LRDNRYFAHT NVESLVNEYD DNGEGIIIFR PSHLTNKFED KTVAYTEQKM TSGKIKKFIQ ENIFGICPHM TEDNKDLIQG
KDLLIAYYDV DYEKNAKGSN YWRNRVMMVA KKFLDAGHKL NFAVASRKTf SHELSDFGLE STAGEIPVVA IRTAKGEKfV MQEEFSRDGK
ALERFLQDYF DGNLKRYLKS EPIPESNDGP VKVVVAENFD EIVNNENKDV LIEFYAPWCG HCKNLEPKYK ELGEKLSKDP NIVIAKMDAT
ANDVSPPYEV RGFPTIYFSP ANKKLNPKKY EGGRELSDFI SYLQREATNP PVIQEEKPKK KKKAQEDL

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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General references:

Vigneron N., *et al.* (2009) *Eur J Immunol.* 39(9):2371-6.

Forster ML., *et al.* (2009) *J Biol Chem.* 284(19):13045-56.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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