Datasheet for ABIN1097421

PDIA6 Protein (AA 20-440) (His tag)

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Overview

Quantity:	50 µg
Target:	PDIA6
Protein Characteristics:	AA 20-440
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDIA6 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Protein Disulfide-Isomerase A6/PDIA6 (C-6His)
Sequence:	LYSSSDDVIE LTPSNFNREV IQSDSLWLVE FYAPWCGHCQ RLTPEWKKAA TALKDVVKVG AVDADKHHSL GGQYGVQGFP TIKIFGSNKN RPEDYQGGRT GEAIVDAALS ALRQLVKDRL GGRSGGYSSG KQGRSDSSSK KDVIELTDDS FDKNVLDSED VWMVEFYAPW CGHCKNLEPE WAAAASEVKE QTKGKVKLAA VDATVNQVLA SRYGIRGFPT IKIFQKGESP VDYDGGRTRS DIVSRALDLF SDNAPPPELL EIINEDIAKR TCEEHQLCVV AVLPHILDTG AAGRNSYLEV LLKLADKYKK KMWGWLWTEA GAQSELETAL GIGGFGYPAM AAINARKMKF ALLKGSFSEQ GINEFLRELS FGRGSTAPVG GGAFPTIVER EPWDGRDGEL PVEDDIDLSD VELDDLGKDE LVDHHHHHH
Characteristics:	Recombinant Human Protein Disulfide-Isomerase A6/PDIA6 produced by transfected human cells is a secreted protein with sequence (Leu20-Leu440) of human PDIA6 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	PDIA6
Alternative Name:	pdia6 (PDIA6 Products)
Sub Type:	Fusionprotein
Background:	Protein Disulfide-Isomerase A6 (PDIA6) is a 48.5kDa protein that belongs to the protein disulfide isomerase family (PDI). PDIA6 is an enzyme in the endoplasmic reticulum in eukaryotes which catalyzes the formation and breakage of disulfide bonds between cysteine residues within proteins as they fold. The PDIA6 expressed in platelets, its functions as a chaperone that inhibits aggregation of misfolded proteins. PDIA6 is part a large chaperone multiprotein complex comprising DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PDIA6, PPIB, SDF2L1, UGT1A1. PDIA6 also plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin. Alternative Names: 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
Molecular Weight:	47.2 kDa
UniProt:	Q15084
Pathways:	ER-Nucleus Signaling, Cell RedoxHomeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 8.0.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months

