Recombinant Human PRDX6, His-tagged

Cat. No. PRDX6-27600TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-224 of Human Peroxiredoxin 6 with an N terminal His tag; Predicted MWt 26 kDa.
Species	Human
Source	E.coli
ProteinLength	1-224 a.a.
Description	The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 105 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.
Sequences of amino	MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHP RDFTPVCTTELGRAAK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

acids	LAPEFAKRNVKLIALSIDSVED HLAWSKDINAYNCEEPTEKLPFPIIDDRNRELAILLG M LDPAEKDEKGMPVTARVVFVFGPDKKLKLSILYPATTG RNFDEILRVVISLQLTAE KRVATPVDWKDGDSVMVLPTIP EEEAKKLFPKGVFTKELPSGKKYLRYTPQP
Sequence Similarities	Belongs to the ahpC/TSA family. Rehydrin subfamily.Contains 1 thioredoxin domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	PRDX6 peroxiredoxin 6 [Homo sapiens]
Official Symbol	PRDX6
Synonyms	PRDX6; peroxiredoxin 6; peroxiredoxin-6; 1 Cys; aiPLA2; AOP2; KIAA0106; MGC46173; NSGPx; p29; PRX;
Gene ID	9588
mRNA Refseq	NM_004905
Protein Refseq	NP_004896
MIM	602316
Uniprot ID	P30041
Chromosome Location	1q24.1
Pathway	Metabolic pathways, organism-specific biosystem; Phenylalanine metabolism,

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	organism-specific biosystem; Phenylalanine metabolism, conserved biosystem;
Function	antioxidant activity; glutathione peroxidase activity; hydrolase activity; oxidoreductase activity; peroxiredoxin activity;

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