

Peroxiredoxin-4 Active Protein | PRDX4 active protein

Recombinant Human Peroxiredoxin-4

CATALOG # AAA38812	HOST E Coli
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PRODUCT SYNONYMS

Peroxiredoxin-4; Recombinant Human Peroxiredoxin-4; PRDX4 Human; Peroxiredoxin-4 Human Recombinant; EC 1.11.1.15; AOE37-2; Peroxiredoxin-IV; Prx-IV; Thioredoxin peroxidase AO372; Thioredoxin-dependent peroxide reductase A0372; Antioxidant enzyme AOE372; PRDX4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	PRDX4 Human solution containing 20mM Tris HCL pH-8, & 10% glycerol. Sterile filtered colorless solution.
Concentration	5ug/5ul (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMWE TEERPRTREE ECHFYAGGQV YPGEASRVSV ADHSLHLSKA KISKAPYWE GTAVIDGEFK ELKLTDIRGK YLVFFFYPLD FTFVCPTEII AFGDRLEEFR SINTEVVACS VDSQFTHLAW INTPRRQGGL GPIRIPLSD LTHQISKDYG VYLED SGHTL RGLFIIDDKG ILRQITLNDL PVGRSVDETL RLVQAFQYTD KHGEVCPAGW KPGSETIIPD PAGKLKYFDK LN
Sequence Length	271
Biological Activity	Specific activity: approximately 230-310 pmole/min/ ug. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX4 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25 C for 1 minute.
Preparation and Storage	PRDX4 Human although stable at 4 degree C for 1 week, should be stored desiccated below -18 degree C. Please prevent freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PRDX4 active protein	Description: PRDX4 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 255 amino acids (38-271 a.a.) and having a molecular mass of 28.8kDa. PRDX4 protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography. Introduction: PRDX4 is an antioxidant enzyme that is part of the peroxiredoxin family. PRDX4 is localized to the cytoplasm. PRDX4 reduces hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. PRDX4 has a regulatory part in the activation of the transcription factor NF-kappaB. PRDX4 participates in redox regulation of the cell. PRDX4 regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation.
Product Categories/Family for PRDX4 active protein	Enzymes; Peroxiredoxin

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453549
NCBI GeneID	10549
NCBI Accession #	NP_006397.1

NCBI GenBank Nucleotide #	NM_006406.1
UniProt Accession #	Q13162 ; Q6FHT3
Molecular Weight	30,540 Da
NCBI Official Full Name	peroxiredoxin-4
NCBI Official Synonym Full Names	peroxiredoxin 4
NCBI Official Symbol	PRDX4
NCBI Official Synonym Symbols	PRX-4; AOE372; AOE37-2; HEL-S-97n
NCBI Protein Information	peroxiredoxin-4; antioxidant enzyme AOE372; epididymis secretory sperm binding protein Li 97n; peroxiredoxin IV; prx-IV; thioredoxin peroxidase (antioxidant enzyme); thioredoxin peroxidase AO372; thioredoxin-dependent peroxide reductase A0372
UniProt Protein Name	Peroxiredoxin-4
UniProt Gene Name	PRDX4
UniProt Synonym Gene Names	AOE37-2; Prx-IV
UniProt Entry Name	PRDX4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-prdx4-active-protein/peroxiredoxin-4/38812>