

Peroxiredoxin-1 Active Protein | PRDX1 active protein

Recombinant Human Peroxiredoxin-1

CATALOG # AAA10855	HOST E Coli
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PRODUCT SYNONYMS

Peroxiredoxin-1; Recombinant Human Peroxiredoxin-1; PRDX1 Human; Peroxiredoxin-1 Human Recombinant; EC 1.11.1.15; Thioredoxin peroxidase 2; Thioredoxin-dependent peroxide reductase 2; Proliferation-associated gene protein; Natural killer cell-enhancing factor A; NKEF-A; PRDX1; TDPX2; PRDX-1; PAG; PAGA; PRX1; PAGB; PRXI; MSP23; NKEFA; PRDX1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The Peroxiredoxin solution (1mg/ml) contains 20mM Tris-HCl pH-7.5, & 20% glycerol. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMSS GNAKIGH PAP NFKATAVMPD GQFKDISLSD YKGKYV VFFF YPLDFTFVCP TEIIAFSDRA EEFKKLNCQV IGASVDSHFC HLAWVNTPKK QGGLGPMNIP LVSDPKRTIA QDYGVLKADE GISFRGLFII DDKGILRQIT VNDLPVGRSV DETLRLVQAF QFTDKHGEVC PAGWKPGSDT IKPDVQKSKE YFSKQK
Sequence Length	199
Biological Activity	Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25 degree C for minute. Specific activity is >2,000pmol/min/ug.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.

ADDITIONAL INFORMATION

Related Product Information for PRDX1 active protein	Description: Peroxiredoxin Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain (1-199) containing 219 amino acids and having a molecular mass of 24 kDa. The Peroxiredoxin is purified by proprietary chromatographic techniques. Introduction: PRDX1 is part of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. PRDX1 is an important protector of red blood cells against reactive oxygen species and in tumor prevention. PRDX1 is antioxidant protective in cells, and contributes to the antiviral activity of CD8(+) T-cells. PRDX1 has a proliferative effect and is involved in cancer development or progression. Peroxiredoxin-1 is plays a role in redox regulation of the cell. Peroxiredoxin decreases peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. Peroxiredoxin is involved in eliminating peroxides generated during metabolism. Peroxiredoxin participates in the signaling cascades of growth factors and TNF-alpha by regulating the intracellular concentrations of h(2)o(2).
Product Categories/Family for PRDX1 active protein	Enzymes; Peroxiredoxin

NCBI AND UNIPROT INFORMATION

NCBI GI #	320461711
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NCBI GeneID	5052
NCBI Accession #	NP_001189360.1
NCBI GenBank Nucleotide #	NM_001202431.1
UniProt Accession #	Q06830; P35703; Q2V576; Q5T154; Q5T155; B5BU26; D3DPZ8
NCBI Official Full Name	peroxiredoxin-1
NCBI Official Synonym Full Names	peroxiredoxin 1
NCBI Official Symbol	PRDX1
NCBI Official Synonym Symbols	PAG; PAGA; PAGB; PRX1; PRXI; MSP23; NKEFA; TDPX2; NKEF-A
NCBI Protein Information	peroxiredoxin-1; natural killer cell-enhancing factor A; natural killer-enhancing factor A; proliferation-associated gene A; proliferation-associated gene protein; thioredoxin peroxidase 2; thioredoxin-dependent peroxide reductase 2
UniProt Protein Name	Peroxiredoxin-1
UniProt Gene Name	PRDX1
UniProt Synonym Gene Names	PAGA; PAGB; TDPX2; NKEF-A; PAG
UniProt Entry Name	PRDX1_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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-prdx1-active-protein/peroxiredoxin-1/10855>