

Peroxiredoxin-2 Active Protein | PRDX2 active protein

Recombinant Human Peroxiredoxin-2

CATALOG #
AAA38698

HOST
E Coli

PRODUCT SYNONYMS

Peroxiredoxin-2; Recombinant Human Peroxiredoxin-2; PRDX2 Human; Peroxiredoxin-2 Human Recombinant; PRP; TSA; PRX2; NKEFB; PRXII; TDPX1; MGC4104; PRDX2; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxide reductase 1; Thiol-specific antioxidant protein; Natural killer cell-enhancing factor B; NKEF-B; PRDX2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The Peroxiredoxin solution contains 20mM Tris-HCl pH-8, & 10% glycerol. Sterile Filtered colorless solution.
Sequence	MASGNARIGK PAPDFKATAV VDGAfKEVKL SDYKGKYVVL FFYPLDFTFV CPTeIIAFSN RAEDFRKLGC EVLGVSVDsQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVlKT DEGIAYRGLF IIDGKGVLrQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHn
Sequence Length	198
Biological Activity	The specific activity was found to be approximately 200-230 pmole/min/ ug. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX2 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 degree C for 1 minute.
Preparation and Storage	PRDX2 although stable 4 degree C for 4 weeks, should be stored desiccated below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PRDX2 active protein	Description: PRDX2 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 198 amino acids and having a molecular mass of 21.8 kDa. The PRDX2 is purified by proprietary chromatographic techniques. Introduction: PRDX2 is part of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. PRDX2 takes part as an antioxidant protective role in cells, and contributes to the antiviral activity of CD8(+) T-cells. PRDX2 has proliferative effect in cancer development or progression. If PRDX2 protection is insufficient against peroxidases, the DNA damage results in neurological disease such as Alzheimer's or DNA damage leading to cancer.
Product Categories/Family for PRDX2 active protein	Enzymes; Peroxiredoxin

NCBI AND UNIPROT INFORMATION

NCBI GI #	32189392
NCBI GeneID	7001
NCBI Accession #	NP_005800.3

NCBI GenBank Nucleotide #	NM_005809.5
UniProt Accession #	P32119 ; P31945 ; P32118 ; P35701 ; Q6FHG4 ; Q92763 ; Q9UC23 ; A8K0C0
Molecular Weight	15,819 Da
NCBI Official Full Name	peroxiredoxin-2
NCBI Official Synonym Full Names	peroxiredoxin 2
NCBI Official Symbol	PRDX2
NCBI Official Synonym Symbols	PRP; TSA; PRX2; PTX1; TPX1; NKEFB; PRXII; TDPX1; NKEF-B; HEL-S-2a
NCBI Protein Information	peroxiredoxin-2; epididymis secretory sperm binding protein Li 2a; natural killer cell-enhancing factor B; thiol-specific antioxidant 1; thioredoxin peroxidase 1; thioredoxin-dependent peroxide reductase 1; torin
UniProt Protein Name	Peroxiredoxin-2
UniProt Gene Name	PRDX2
UniProt Synonym Gene Names	NKEFB; TDPX1; NKEF-B; TSA
UniProt Entry Name	PRDX2_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-prdx2-active-protein/peroxiredoxin-2/38698>