

Peroxiredoxin 2 Active Protein | PRDX2 active protein

Peroxiredoxin 2, 1-198aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48528	HOST E Coli	APPLICATIONS SDS-Page
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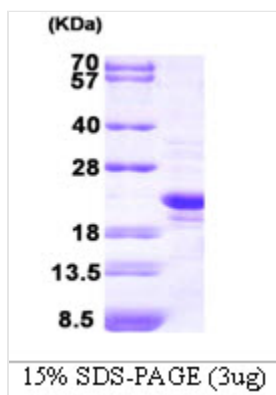
PRODUCT SYNONYMS

Peroxiredoxin 2; 1-198aa; Human; E Coli (Bioactivity Validated); NKEFB; PRP; PRX2; PRXII; TDPX1; TSA; PRDX2; MGC4104; Natural killer cell enhancing factor B; Natural Killer Enhancing Factor B; NKEF B; PRDX 2; Thiol Specific Antioxidant 1; Thiol specific antioxidant protein; Thioredoxin Dependent Peroxide Reductase 1; Thioredoxin Peroxidase 1; Torin.; PRDX2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MASGNARIGK PAPDFKATAV VDGAfKEVKL SDYKGKYVVL FFYPLDFTFV CPTeIIAFSN RAEDFRKLGC EVLGVSVDsQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVlKT DEGIAYRGLF IIDGKGVLrQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHn
Sequence Length	198
Applicable Applications for PRDX2 active protein	Enzyme Activity, SDS-PAGE
Endotoxin Level	<1 EU per 1ug of protein (determined by LAL method)
Biological Activity	Specific activity is >2,000 pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for minute.
Domain	1-198aa
Preparation and Storage	Can be stored at 2°C to 8°C for short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for PRDX2 active protein	Peroxiredoxin 2, also known as PRDX2, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 2 may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8 (+) T-cells. If Peroxiredoxin 2 protection is inadequate against peroxidases, the resulting protein and DNA damage may result in neurological disease such as Alzheimer's or DNA damage leading to cancer. Recombinant human Peroxiredoxin 2 protein was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for PRDX2 active protein	Redox Proteins
References	Kim K., et al. (2009), Oncol Rep, 21 (6):1391-6.; Kim JH., et al. (2008). Clin Cancer Res. 14 (8):2326-33.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	32189392
NCBI GeneID	7001
NCBI Accession #	NP_005800
NCBI GenBank Nucleotide #	NM_005809.5
UniProt Accession #	P32119 ; P31945 ; P32118 ; P35701 ; Q6FHG4 ; Q92763 ; Q9UC23 ; A8K0C0
Molecular Weight	21.8 kDa (198aa), confirmed by MALDI-TOF.
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
UniProt Protein Name	Peroxiredoxin-2
UniProt Gene Name	PRDX2
UniProt Synonym Gene Names	NKEFB; TDPX1; NKEF-B; TSA

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.