

PRDX4 active protein

PRDX4, 38-271aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48624	HOST E Coli	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

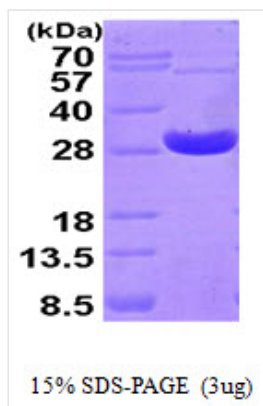
PRODUCT SYNONYMS

PRDX4; 38-271aa; Human; His tag; E Coli (Bioactivity Validated); peroxiredoxin 4; PRX-4; AOE37-2; peroxiredoxin 4 Antioxidant enzyme 372; Antioxidant enzyme AOE372; AOE37 2; AOE372; EC 1.11.1.15; Peroxiredoxin4; PRDX 4; PRX 4; Prx IV; PRX4; PrxIV; Thioredoxin dependent peroxide reductase A0372; Thioredoxin peroxidase; Thioredoxin Peroxidase (Antioxidant Enzyme); Thioredoxin peroxidase A0372; TRANK.; PRDX4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MWETEERPT REEECHFYG QVYPGEASR VSVADHSLHL SKAKISKAP YWEGTAVIDG EFKEKLTDY RGKYLVEFFY PLDFTVCPT EIIAFGDRLE EFRSINTEVV ACSVDSQFTH LAWINTPRRQ GGLGPIRIPL LSDLTHQISK DYGVYLEDSG HTLRGLFIID DKGILRQITL NDLPVGRSVD ETLRLVQAFQ YTDKHGEVCP AGWKPGSETI IPDPAGKLKY FDKLN
Sequence Length	271
Applicable Applications for PRDX4 active protein	SDS-PAGE
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 1minute.
Preparation and Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PRDX4 active protein	PRDX4 is an antioxidant enzyme and belongs to the peroxiredoxin (Prdx, Prx, or TrxPx) family. This protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein regulates the of the transcription factor NF-kappaB in the cytosol by a modulation of I-kappa-B-alpha phosphorylation. The ubiquitously expressed peroxiredoxins have also been shown to play a role in apoptosis and cell differentiation. Recombinant human PRDX4, fused to His-tag at N-terminus, was expressed in E Coli and purified by conventional chromatography techniques.
Product Categories/Family for PRDX4 active protein	Redox Proteins
References	Jin D.-Y., et al. (1997) J. Biol. Chem. 272:30952-30961.; Wang HQ., et al. (2009) FEBS Lett. 583 (9):1511-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453549
NCBI GeneID	10549
NCBI Accession #	NP_006397
NCBI GenBank Nucleotide #	NM_006406.1
UniProt Accession #	Q13162; Q6FHT3
Molecular Weight	28.8kDa (255aa), confirmed by MALDI-TOF.
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
UniProt Protein Name	Peroxiredoxin-4
UniProt Gene Name	PRDX4
UniProt Synonym Gene Names	AOE37-2; Prx-IV

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-active-protein/prdx4/48624>