

Peroxiredoxin-3 Active Protein | PRDX3 active protein

Recombinant Human Peroxiredoxin-3

CATALOG #
AAA38770

HOST
E Coli

PRODUCT SYNONYMS

Peroxiredoxin-3; Recombinant Human Peroxiredoxin-3; PRDX3 Human; Peroxiredoxin-3 Human Recombinant; AOP1; MER5; AOP-1; SP-22; PRO1748; MGC24293; MGC104387; PRDX3; Thioredoxin-dependent peroxide reductase mitochondrial; PRX III; Antioxidant protein 1; Protein MER5 homolog; HBC189; PRDX3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The PRDX3 solution contains 20mM Tris-HCl pH-8, & 10% glycerol. Sterile Filtered colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence	MPAVTQHAPY FKGTAVVNGE FKDLSLDDFK GKYLVLFFYP LDFTFVCPT E IVAFSDKANE FHDVNCEVVA VSVDSHFSL AWINTPRKNG GLGHMNIALL SDLTKQISRD YGVLLLEGSL ALRGLFIIDP NGVIKHL SVN DLPVGRSVEE TLRLVKAFQY VETHGEVCPA NWTPDSPTIK PSPAASKEYF QKVNQ
Sequence Length	198
Biological Activity	The specific activity was found to be approximately 82-83 pmole/min/ ug. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX3 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	PRDX3 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 PRDX3 active protein	Description: PRDX3 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids (63-256 a.a.) and having a molecular mass of 21.5 kDa. The PRDX3 is purified by proprietary chromatographic techniques. Introduction: PRDX3 is part of the peroxiredoxin family of antioxidant enzymes, that reduces hydrogen peroxide and alkyl hydroperoxides. PRDX3 is particularly located in the mitochondria and involved in the regulation of cellular redox status by serving as a primary line of defense against H₂O₂ produced during respiration. PRDX3 is a significant regulator of the abundance of mitochondrial H₂O(2), which itself promotes apoptosis in cooperation with other mediators of apoptotic signaling. PRDX3 mitochondrial protein is significantly decreased in Alzheimer Disease and Down Syndrome.
Product Categories/Family for PRDX3 active protein	Enzymes; Peroxiredoxin

NCBI AND UNIPROT INFORMATION

NCBI GI #	695917253
NCBI GeneID	10935

NCBI Accession #	NP_001289201.1
NCBI GenBank Nucleotide #	NM_001302272.1
UniProt Accession #	P30048 ; P35690 ; Q0D2H1 ; Q13776 ; Q5T5V2 ; Q96HK4 ; B2R7Z0 ; D3DRC9 ; E9PH29
Molecular Weight	25,839 Da
NCBI Official Full Name	thioredoxin-dependent peroxide reductase, mitochondrial isoform c
NCBI Official Synonym Full Names	peroxiredoxin 3
NCBI Official Symbol	PRDX3
NCBI Official Synonym Symbols	AOP1; MER5; AOP-1; SP-22; HBC189; PRO1748; prx-III
NCBI Protein Information	thioredoxin-dependent peroxide reductase, mitochondrial; antioxidant protein 1; peroxiredoxin III; peroxiredoxin-3; protein MER5 homolog
UniProt Protein Name	Thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Gene Name	PRDX3
UniProt Synonym Gene Names	AOP1; AOP-1; Prx-III
UniProt Entry Name	PRDX3_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-prdx3-active-protein/peroxiredoxin-3/38770>