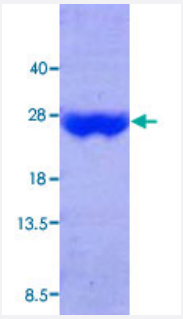
Bioactive

PRDX3 (Human) Recombinant Protein

Catalog # P3487 Size 100 ug

Applications



Specification

Product Description	Human PRDX3 (NP_006784, 63 a.a. - 256 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	MPAVTQHAPYFKGTAVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVN CEVVAVSVDSHFSHLAWINTPRKNGGLGHMNIALLSDLTKQISRDYGVLLEGSGLALRGLFIIDPNG VIKHLSVNDLPVGRSVEETLRLVKAFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQKVNQ
Host	Escherichia coli
Theoretical MW (kDa)	21.5
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Activity	Specific activity: approximately 82-83 pmole/min/ug. 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 th

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Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (10% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PRDX3

Entrez GeneID	10935
Protein Accession#	NP_006784
Gene Name	PRDX3
Gene Alias	AOP-1, AOP1, MER5, MGC104387, MGC24293, PRO1748, SP-22
Gene Description	peroxiredoxin 3
Omim ID	604769
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein with antioxidant function and is localized in the mitochondrion. This gene shows significant nucleotide sequence similarity to the gene coding for the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase. Expression of this gene product in E. coli deficient in the C22-subunit gene rescued resistance of the bacteria to alkylhydroperoxide. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologues suggest that these genes consist of a family that is responsible for regulation of cellular proliferation, differentiation, and antioxidant functions. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000020590|antioxidant protein 1|thioredoxin-dependent peroxide reductase

Disease

- Alzheimer disease

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- Cognition
- Genetic Predisposition to Disease

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