

Recombinant Human PRDX4, His-tagged

Cat. No. PRDX4-30466TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Peroxiredoxin 4 with N terminal His tag; 255 amino acids with tag, MWt 28.8 kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The 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 has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.
Conjugation	HIS
Biological activity	Specific activity: approximately 230-310 pmole/min/μg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX4 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide t
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRDX4 peroxiredoxin 4 [Homo sapiens]
Official Symbol	PRDX4
Synonyms	PRDX4; peroxiredoxin 4; peroxiredoxin-4; AOE37 2;
Gene ID	10549
mRNA Refseq	NM_006406
Protein Refseq	NP_006397
MIM	606506
Uniprot ID	Q13162
Chromosome Location	X
Pathway	Selenium Pathway, organism-specific biosystem;

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Function

oxidoreductase activity; thioredoxin peroxidase activity;

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