

Recombinant Human PRDX5

Cat. No. PRDX5-30762TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Peroxiredoxin 5; amino acids 53-214, 17kDa.
Species	Human
Source	E.coli
ProteinLength	53-214 a.a.
Description	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene.
Tissue specificity	Widely expressed.
Biological activity	Specific activity : 2.12 U/mgOne unit will cause the oxidation of 1μmole of NADPH at 25°C at pH 7.5.
Form	Lyophilised:Packaging size : 0.5 mg
Storage buffer	Preservative: NoneConstituents: 20mM HEPES, pH 7.4

 Tel: 1-631-559-9269 1-516-512-3133

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the peroxiredoxin 2 family. Contains 1 thioredoxin domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRDX5 peroxiredoxin 5 [Homo sapiens]
Official Symbol	PRDX5
Synonyms	PRDX5; peroxiredoxin 5; peroxiredoxin-5, mitochondrial; ACR1; Alu co repressor 1; antioxidant enzyme B166; AOEB166; B166; liver tissue 2D page spot 71B; MGC117264; MGC142283; MGC142285; peroxisomal antioxidant enzyme; PLP; PMP20; PRDX6; PRXV; SBB110; thio
Gene ID	25824
mRNA Refseq	NM_012094
Protein Refseq	NP_036226
MIM	606583
Uniprot ID	P30044
Chromosome Location	11q13
Pathway	Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;

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Selenium Pathway, organism-specific biosystem;

Function

cysteine-type endopeptidase inhibitor activity involved in apoptotic process;
oxidoreductase activity; peroxidase activity; peroxiredoxin activity;

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