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Datasheet for ABIN1692321

**Peroxiredoxin 3 Protein (PRDX3) (AA 63-256)**

## Overview

Quantity:	50 µg
Target:	Peroxiredoxin 3 (PRDX3)
Protein Characteristics:	AA 63-256
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human Peroxiredoxin-3/PRDX3
Sequence:	MPAVTQHAPY FKGTAVNGE FKDSLDDFK GKYLVLFFYP LDFTFVCPT EIVAFSDKANE FHDVNCEVVA VSVDSHFSL AWINTPRKNG GLGHMNIALL SDLTQISR DYGVLLEG SGL ALRGLFIIDP NGVIKHL SVN DLPVGRSVEE TLRLVKAFQY VETHGEVCPA NWTPDSPTIK PSPAASKEYF QKVNQ
Characteristics:	Recombinant Human Thioredoxin-Dependent Peroxide Reductase Mitochondrial/PRDX3 is produced with our E. coli expression system. The target protein is expressed with sequence (Pro63-Gln256) of Human PRDX3.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Peroxiredoxin 3 (PRDX3)
Alternative Name:	PRDX3 ( <a href="#">PRDX3 Products</a> )
Background:	<p>Thioredoxin-Dependent Peroxide Reductase Mitochondrial (PRDX3) is an enzyme that belongs to the AhpC/TSA family. Human and mouse PRDX3 genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Human PRDX3 protein has an antioxidant function and is localized in the mitochondrion. PRDX3 is involved in redox regulation of the cell. PRDX3 protects radical-sensitive enzymes from oxidative damage by a radical-generating system. It acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.</p> <p>Alternative Names: Thioredoxin-Dependent Peroxide Reductase Mitochondrial, Antioxidant Protein 1, AOP-1, HBC189, Peroxiredoxin III, Prx-III, Peroxiredoxin-3, Protein MER5 homolog, PRDX3, AOP1</p>
Molecular Weight:	21.6 kDa
UniProt:	<a href="#">P30048</a>
Pathways:	<a href="#">Ribonucleoside Biosynthetic Process</a> , <a href="#">Methionine Biosynthetic Process</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at &lt; -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months