

# Recombinant Human Peroxiredoxin-4/PRDX4 Protein (His Tag)



Catalog Number:PKSH032884

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

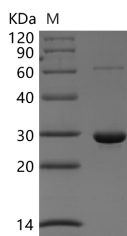
## Description

<b>Synonyms</b>	Peroxiredoxin-4;Antioxidant Enzyme AOE372;AOE37-2;Peroxiredoxin IV;Prx-IV;Thioredoxin Peroxidase AO372;Thioredoxin-Dependent Peroxide Reductase A0372;PRDX4
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Trp38-Asn271
<b>Accession</b>	Q13162
<b>Calculated Molecular Weight</b>	28.9 kDa
<b>Observed molecular weight</b>	30 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Peroxiredoxin-4 (PRDX4) is a member of the AhpC/TSA family. PRDX4 is a cytoplasmic protein and contains one thioredoxin domain. PRDX4 exists in homodimer or heterodimer with PRDX1. PRDX4 reduces hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. In addition, PRDX4 is probably involved in redox regulation of the cell, regulating the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation.

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