Recombinant Human Peroxiredoxin-4/PRDX4 Protein (His

Tag)

Catalog Number: PKSH032884



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

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Synonyms Peroxiredoxin-4;Antioxidant Enzyme AOE372;AOE37-2;Peroxiredoxin IV;Prx-

IV; Thioredoxin Peroxidase AO372; Thioredoxin-Dependent Peroxide Reductase

A0372;PRDX4

SpeciesHumanExpression HostE.coli

Sequence Trp38-Asn271

Accession Q13162
Calculated Molecular Weight 28.9 kDa
Observed molecular weight 30 kDa
Tag N-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

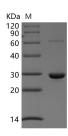
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution 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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