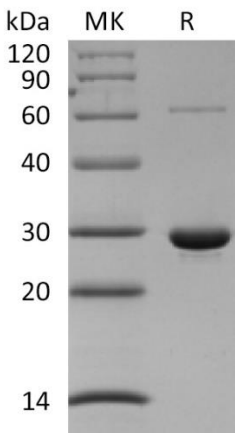


Recombinant Human Peroxiredoxin-4/PRDX4

Catalog#:P01739 Derived from *E.coli*

DESCRIPTION	<p>Recombinant Human Peroxiredoxin-4 is produced by our E.coli expression system and the target gene encoding Trp38-Asn271 is expressed with a 6His tag at the N terminus.</p> <p>Accession#: Q13162</p> <p>Known as: Peroxiredoxin-4; Antioxidant Enzyme AOE372; AOE37-2; Peroxiredoxin IV; Prx-IV; Thioredoxin Peroxidase AO372; Thioredoxin-Dependent Peroxide Reductase A0372; PRDX4</p>
FORMULATION	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
SHIPPING	<p>The product is shipped on dry ice/polar packs.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Store at ≤-70° C, stable for 6 months after receipt.</p> <p>Store at ≤-70° C, stable for 3 months under sterile conditions after opening.</p> <p>Please minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass: 28.9kDa AP Mol Mass: 30kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: < 1 EU/μg as determined by LAL test.</p>
BACKGROUND	<p>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.</p>
SDS-PAGE	 <p>SDS-PAGE analysis showing two lanes, MK and R. Molecular weight markers are indicated on the left at 120, 90, 60, 40, 30, 20, and 14 kDa. Lane MK shows a prominent band at approximately 30 kDa. Lane R shows a prominent band at approximately 30 kDa.</p>