Recombinant Human Peroxiredoxin-3/PRDX3 Protein

Catalog Number: PKSH032882

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

SpeciesHumanSourceE.coli-derived Human Peroxiredoxin-3;PRDX3 protein Pro63-Gln256Calculated MW21.6 kDaObserved MW25 kDaAccessionP30048Bio-activityNot validated for activityPropertiesPurity>95 % as determined by reducing SDS-PAGE.ConcentrationSubject to label value.Endotoxin< 1.0 EU per µg of the protein as determined by the LAL method.	Description			
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Background

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 radicalgenerating system. It acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.