

## Peroxiredoxin-1 Human Recombinant

<b>Item Number</b>	rAP-1491
<b>Synonyms</b>	Peroxiredoxin-1, EC 1.11.1.15, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, Proliferation-associated gene protein, Natural killer cell-enhancing factor A, NKEF-A, PRDX1, TDPX2, PRDX-1, PAG, PAGA, PRX1, PAGB, PRXI, MSP23, NKEFA.
<b>Description</b>	Peroxiredoxin Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain (1-199) containing 219 amino acids and having a molecular mass of 24 kDa. The Peroxiredoxin is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	Q06830
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSSLVPRGSH MSSGNAKIGH PPNFKATAV MPDGQFKDIS LSDYKGYVV FFFYPLD-FTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PKKQGGGLGPM NIPLVSDPKR TIAQDY-GVLK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	The Peroxiredoxin solution (1mg/ml) contains 20mM Tris-HCl pH-7.5 & 20% glycerol. Greater than 90.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	The specific activity was found to be approximately 600-670 pmole/min/μg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX1 and peroxide for 20 min at room temperature. Specific activity is defined as the a
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**