

## 32-6898: PRDX2 Rat

**Alternative Name :** Peroxiredoxin-2, Prdx2, Prdx, Thiol-specific antioxidant protein, TSA, Thioredoxin peroxidase 1, Thioredoxin-dependent peroxide reductase 1.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

PRDX2 is part of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. PRDX2 takes part as an antioxidant protective role in cells, and contributes to the antiviral activity of CD8(+) T-cells. PRDX2 has proliferative effect in cancer development or progression. If PRDX2 protection is insufficient against peroxidases, the DNA damage results in neurological disease such as Alzheimer's or DNA damage leading to cancer. PRDX2 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 222 amino acids (1-198 a.a) and having a molecular mass of 24.3kDa. PRDX2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** PRDX2 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4), 10% glycerol and 1mM DTT.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSHTMASGNA HIGKPAPDFT GTAVVDGAFK EIKLSDYRGK  
YVVLFFYPLD FTFVCPTEII AFSDHAEDFR KLGCEVLGVS VDSQFTHLAW INTPRKEGGL GPLNIPLLD  
VTKSLSQNYG VLKNDGAIY RGLFIIDAKG VLRQITVNDL PVGRSVDEAL RLVQAFQYTD EHGEVCPAGW  
KPGSDTIKPN VDDSKYFSK HN.