

## 32-2727: PRDX2 Recombinant Protein

**Alternative Name :** PRP,TSA,PRX2,NKEFB,PRXII,TDPX1,MGC4104,PRDX2,Peroxiredoxin-2,Thioredoxin peroxidase 1,Thioredoxin-dependent peroxide reductase 1,Thiol-specific antioxidant protein,Natural killer cell-enhancing factor B,NKEF-B.

### Description

Source : Escherichia Coli. PRDX2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 198 amino acids and having a molecular mass of 21.8 kDa. The PRDX2 is purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The Peroxiredoxin solution contains 20mM Tris-HCl pH-8, & 10% glycerol.  
**Storage condition :** PRDX2 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.  
**Amino Acid :** MASGNARIGK PAPDFKATAV VDGAfKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN  
RAEDFRKLGC EVLGVSVD SQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGV LKT  
DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS  
DTIKPNVDDS KEYFSKHN.

### Application Note

The specific activity was found to be approximately 200-230 pmole/min/Åµg.

