

## Peroxiredoxin-2 Human Recombinant

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| <b>Item Number</b>                       | rAP-1492  |
| <b>Synonyms</b>                          | 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.   |
| <b>Description</b>                       | 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.  |
| <b>Uniprot Accesion Number</b>           | P32119  |
| <b>Amino Acid Sequence</b>               | MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGCVLVGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVLKT DEGIAYRGLF IIDGKGVLRQITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN.  |
| <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 contains 20mM Tris-HCl pH-8, & 10% 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 200-230 pmole/min/μg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX2 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**