

# Recombinant Human Peroxiredoxin 2

**Cat. No.** PRDX2-142H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human Peroxiredoxin 2 protein was expressed in E.coli and purified by using conventional chromatography, 21.8 kDa (198aa).                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>            | 1-198 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | Peroxiredoxin 2, also known as PRDX2, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 2 may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. If Peroxiredoxin 2 protection is inadequate against peroxidases, the resulting protein and DNA damage may result in neurological disease such as Alzheimer"s or DNA damage leading to cancer. |
| <b>Sequences of amino acids</b> | MASGNARIGK PAPDFKATAV VDGAfKEVKL SDYKGKYVVL FFYPLDFTFV<br>CPTEIIAFSN RAEDFRKLGC EVLGVSVD SQ FTHLAWINTP RKEGGLGPLN<br>IPLLADVTRR LSEDYGV LKT DEGIAYRGLF IIDGKG VLRQ ITVNDLPVGR<br>SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN                                                                                                                                                                                                                                                          |
| <b>Formulation</b>              | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                   | > 95% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

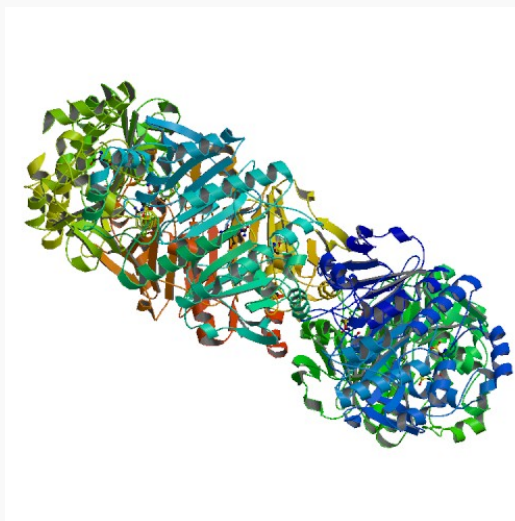
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|                            |                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                              |
| <b>Storage</b>             | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                               |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                     |
| <b>Gene Name</b>           | <a href="#">peroxiredoxin 2 [ Homo sapiens ]</a>                                                                                                                                                                                    |
| <b>Synonyms</b>            | PRDX2; peroxiredoxin 2;PRP; TSA; PRX2; NKEFB; PRXII; TDPX1; MGC4104; torin; thioredoxin peroxidase 1; thiol-specific antioxidant 1; natural killer-enhancing factor B; thioredoxin-dependent peroxide reductase 1;1.11.1.15; NKEF-B |
| <b>Gene ID</b>             | <a href="#">7001</a>                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | <a href="#">NM_181737</a>                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | <a href="#">NP_859427</a>                                                                                                                                                                                                           |
| <b>MIM</b>                 | <a href="#">600538</a>                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | <a href="#">P32119</a>                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 19p13.2                                                                                                                                                                                                                             |
| <b>Function</b>            | oxidoreductase activity; thioredoxin peroxidase activity                                                                                                                                                                            |

PDB rendering based  
on 1qmv



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