

RPPB2176

Product Information Protein Information

Product SKU:

RPPB2176

Accession:

P32119

Host:

Escherichia Coli.

Protein description:

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.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

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.

Formulation:

The Peroxiredoxin solution contains 20mM Tris-HCl pH-8, & 10% glycerol.

Purity:

Greater than 90.0% as determined by SDS-PAGE.

Stability:

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 Sequence:

MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTIIAFSN RAEDFRKLG
EVLGVSVD SQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGV LKT DEGIAYRGLF IIDGKGVLRQ
ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN.

Biological Activity:

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 amount of hydroperoxide that 1ug of enzyme can reduce at 25°C for 1 minute.