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PRDX2 Human

Catalog #:ENPS-421

For research use only.

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.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGC EVLGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVLKT DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN.

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

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

Stability:
PRDX2 althoμgh 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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.

Biological Activity:
The specific activity was found to be approximately 200-230 pmole/min/

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