
Product Data Sheet

Product Name: PRDX2 Human

Cat. No.: GP22152

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGC EVLGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGV LKT DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN.		
Formulation	The Peroxiredoxin solution contains 20mM Tris-HCl pH-8, & 10% glycerol.		

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/?g. 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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