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Recombinant mouse Peroxiredoxin 2/PRDX2 protein

Catalog Number: ATGP3684

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-198aa

UniProt No.

061171

NCBI Accession No.

NP 035693

Alternative Names

Protector protein, PRP, PrxII, Prx II-1, Tdpx1, TDX1, Thiol specific antioxidant protein, Thioredoxin dependent peroxide reductase 1, Thioredoxin peroxidase, Thioredoxin reductase, TPx, TR, Trx dependent peroxide reductase 1, TSA

PRODUCT SPECIFICATION

Molecular Weight

24.3 kDa (222aa) Confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 3,000pmol/min/ug, Activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for minute.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Prdx2, also known as peroxiredoxin-2, is a member of the peroxiredoxin family of antioxidant enzymes, which



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reduce hydrogen peroxide and alkyl hydroperoxides. Prdx2 may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8 (+) T-cells. If Prdx2 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. Recombinant mouse Prdx2, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

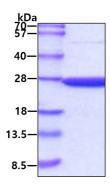
<MGSSHHHHHH SSGLVPRGSH MGSH>MASGNA QIGKSAPDFT ATAVVDGAFK EIKLSDYRGK YVVLFFYPLD FTFVCPTEII AFSDHAEDFR KLGCEVLGVS VDSQFTHLAW INTPRKEGGL GPLNIPLLAD VTKSLSQNYG VLKNDEGIAY RGLFIIDAKG VLRQITVNDL PVGRSVDEAL RLVQAFQYTD EHGEVCPAGW KPGSDTIKPN VDDSKEYFSK HN

General References

Kim H S., et al (2009). Oncol Rep. 21(6):1391-6. Kim J H., et al (2008). Clin Cancer Res. 14(8):2326-33.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

