Recombinant rat Peroxiredoxin 2/PRDX2 protein

Catalog Number: ATGP3147

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-198aa

UniProt No.
P35704

NCBI Accession No.
NP_058865

Alternative Names
Peroxiredoxin-2, Thiol-specific antioxidant protein, TSA, Thioredoxin peroxidase 1, Thioredoxin-dependent peroxide reductase 1, Thioredoxin-dependent peroxiredoxin 2, Tdpx1

PRODUCT SPECIFICATION

Molecular Weight
24.3 kDa (222aa) confirmed by MALDI-TOF

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

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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 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 rat Prdx2, fused to His-tag at N-terminus, was expressed in E. coli and purified

by using conventional chromatography techniques.

Amino acid Sequence

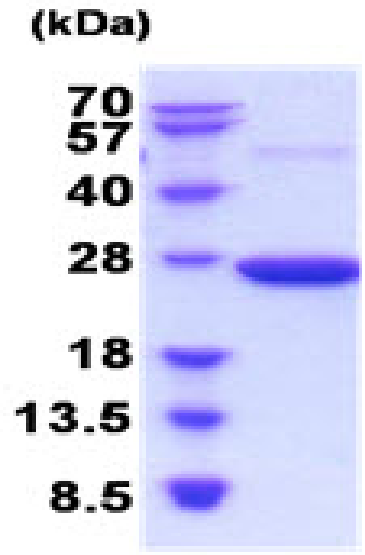
MGSSHHHHHH SSGLVPRGSH MGSHMASGNA HIGKPAPDFT GTAVVDGAFK EIKLSDYRGK YVVLFFYPLD FTFVCPTEII AFSDHAEDFR KLGCEVLGVS VDSQFTHLAW INTPRKEGGL GPLNIPLLAD VTKSLSQNYG VLKNDEGIAY RGLFIIDAKG VLRQITVNDL PVGRSVDEAL RLVQAFQYTD EHGEVCPAGW KPGSDTIKPN VDDSKEYFSK HN

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



15% SDS-PAGE (3ug)

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