Recombinant human Peroxiredoxin 2/PRDX2 protein

Catalog Number: ATGP0268

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-198aa

UniProt No.
P32119

NCBI Accession No.
NP_005800.3

Alternative Names
Peroxiredoxin 2, NKEFB, PRP, PRX2, PRXII, TDPX1, TSA, PRDX2, Peroxiredoxin 2, MGC4104, Natural killer cell enhancing factor B, Natural Killer Enhancing Factor B, NKEF B, PRDX 2, TDPX1, Thiol Specific Antioxidant 1, Thiol specific antioxidant protein, Thioredoxin Dependent Peroxide Reductase 1, Thioredoxin Peroxidase 1, Torin.

PRODUCT SPECIFICATION

Molecular Weight
21.8 kDa (198aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is >2,000pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for minute.

Tag
Non-Tagged

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.

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BACKGROUND

Description

Peroxiredoxin 2, also known as PRDX2, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 2 may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8 (+) T-cells. If Peroxiredoxin 2 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 human Peroxiredoxin 2 protein was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

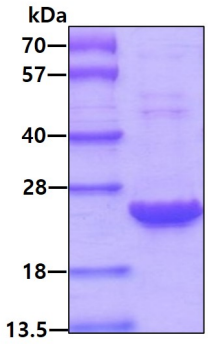
MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGC EVLGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGVLKT DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN

General References

Kim K., et al. (2009), Oncol Rep, 21(6):1391-6.
Kim JH., 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.