

Recombinant mouse Peroxiredoxin 1/PRDX1 protein

Catalog Number: ATGP3340

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-199aa

UniProt No.

P35700

NCBI Accession No.

NP_035164

Alternative Names

Macrophage 23kDa stress protein, Macrophase stress protein 22kDa, MSP23, OSF-3, Osteoblast specific factor 3, PAG, Paga, prx1, Prxl, Prx I, Tdpx2, TDX2, Thioredoxin dependent peroxide reductase 2, Trx dependent peroxide reductase 2

PRODUCT SPECIFICATION

Molecular Weight

23.2 kDa (207aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 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 >4,000pmol/min/ug. Enzymatic 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.

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BACKGROUND

Description

Prdx1, also known as peroxiredoxin-1, is an important member of peroxiredoxins (Prdxs) regulating various cellular signaling and differentiation. It confers an aggressive survival phenotype of cancer cells and drug-resistance. This protein is also identified as a red blood cell factor which enhances natural killer (NK) cell activity. Recombinant mouse Prdx1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MSSGNAKIGY PAPNFKATAV MPDGQFKDIS LSEYKGYV VFFYPLDFTF VCPTEIIAFS DRADEFKKN CQVIGASVDS
HFCHLAWINT PKKQGGLGPM NIPLISDPKR TIAQDYGVK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV
QAFQFTDKHG EVCAPAGWKPG SDTIKPDVNK SKEYFSKQK<L EHHHHHH>

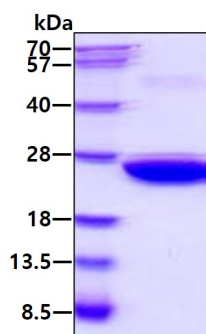
General References

Zhou J., et al. (2015) *Int J Clin Exp Pathol.* 8:9863-9874.

Sauri H., et al. (1996) *J Leukoc Biol.* 59:925-931.

DATA

SDS-PAGE



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