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# 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, PrxI, PrxI, 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 drugresistance. 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**

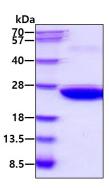
MSSGNAKIGY PAPNFKATAV MPDGQFKDIS LSEYKGKYVV FFFYPLDFTF VCPTEIIAFS DRADEFKKLN CQVIGASVDS HFCHLAWINT PKKQGGLGPM NIPLISDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVNK SKEYFSKQK<L EHHHHHHH>

#### **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.

