

Active Recombinant Full Length Mouse Prdx1 Protein, His-tagged

Cat. No. Prdx1-60M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Prdx1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	1-199 a.a.
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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	Specific activity is >2,500 pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25°C for minute.
Molecular Mass	23.2kDa (207aa)18-28KDa (SDS-PAGE under reducing conditions.)
AA Sequence	MSSGNAKIGY PAPNFKATAV MPDGQFKDIS LSEYKGKYVV FFFYPLDFTF VCPTEIIAFS DRADEFKFLN CQVIGASVDS HFCHLAWINTPKKQGLGPM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NIPLISDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV
QAFQFTDKHG EVCPAGWKPGSDTIKPDVNK SKEYFSKQKL EHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [Prdx1 peroxiredoxin 1 \[Mus musculus \]](#)

Official Symbol [Prdx1](#)

Synonyms PRDX1; PAG; OSF3; Paga; Prxl; TDX2; TPxA; prx1; MSP23

Gene ID [18477](#)

mRNA Refseq [NM_011034](#)

Protein Refseq [NP_035164](#)


MIM

UniProt ID

Pathway Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



phosphate acquisition II, organism-specific biosystem;

Function

antioxidant activity; heme binding; oxidoreductase activity; peroxidase activity; peroxiredoxin activity; protein homodimerization activity; thioredoxin peroxidase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA