

# Active Recombinant Full Length Mouse Prdx1 Protein, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Prdx1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1-199 a.a.                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | 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.                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 23.2kDa (207aa)18-28KDa (SDS–PAGE under reducing conditions.)                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MSSGNAKIGY PAPNFKATAV MPDGQFKDIS LSEYKGKYVV FFFYPLDFTF<br>VCPTEIIAFS DRADEFKKLN CQVIGASVDS HFCHLAWINTPKKQGGLGPM                                                                                                                                                                                                                                 |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | NIPLISDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV<br>QAFQFTDKHG EVCPAGWKPGSDTIKPDVNK SKEYFSKQKL EHHHHHH                                                       |
| <b>Endotoxin</b>        | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                            |
| <b>Storage</b>          | 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. |
| <b>Concentration</b>    | 0.5mg/ml (determined by Absorbance at 280nm)                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                               |
| <b>Gene Name</b>        | <a href="#">Prdx1 peroxiredoxin 1 [ Mus musculus ]</a>                                                                                                                        |
| <b>Official Symbol</b>  | <a href="#">Prdx1</a>                                                                                                                                                         |
| <b>Synonyms</b>         | PRDX1; PAG; OSF3; Paga; Prxl; TDX2; TPxA; prx1; MSP23                                                                                                                         |
| <b>Gene ID</b>          | <a href="#">18477</a>                                                                                                                                                         |
| <b>mRNA Refseq</b>      | <a href="#">NM_011034</a>                                                                                                                                                     |
| <b>Protein Refseq</b>   | <a href="#">NP_035164</a>                                                                                                                                                     |
| <b>MIM</b>              |                                                                                                                                                                               |
| <b>UniProt ID</b>       |                                                                                                                                                                               |
| <b>Pathway</b>          | Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;                                                                                                     |

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phosphate acquisition II, organism-specific biosystem;

**Function**

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

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