

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 DRADEFKKLN CQVIGASVDS HFCHLAWINTPKKQGGLGPM

 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 EVCPAGWKPGSDTIKPDV NK 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;

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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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