

## Product datasheet for **AR52067PU-S**

### Peroxiredoxin-1 / PRDX1 (1-199, His-tag) Mouse Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Peroxiredoxin-1 / PRDX1 (1-199, His-tag) mouse protein, 10 µg
<b>Species:</b>	Mouse
<b>Expression cDNA Clone or AA Sequence:</b>	MSSGNAKIGY PAPANFKATAV MPDGQFKDIS LSEYKGYVW FFFYPLDFTF VCPTEIIAFS DRADEFKRLN CQVIGASVDS HFCHLAWINT PKKQGGLGPM NIPLISDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVVK SKEYFSKQKL EHHHHHH
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	23.2 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Bioactivity:</b>	Specific: 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>Endotoxin:</b>	< 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Preparation:</b>	Liquid purified protein
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_035164</a>
<b>Locus ID:</b>	18477
<b>UniProt ID:</b>	<a href="#">P35700</a>
<b>Cytogenetics:</b>	4 53.28 cM
<b>Synonyms:</b>	MSP23; NkefA; OSF-3; OSF3; PAG; Paga; Prdx1; prx1; Prxl; Tdp2; TDX2; TPxA



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**Summary:**

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H<sub>2</sub>O<sub>2</sub> (By similarity). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (PubMed:19766572).[UniProtKB/Swiss-Prot Function]

**Product images:**