

Product datasheet for **AR52067PU-N**

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

Product data:

Product Type:	Recombinant Proteins
Description:	Peroxiredoxin-1 / PRDX1 (1-199, His-tag) mouse protein, 50 µg
Species:	Mouse
Expression cDNA Clone or AA Sequence:	MSSGNAKIGY PAPANFKATAV MPDGQFKDIS LSEYKGYV FFFYPLDFTF VCPTEIIAFS DRADEFKLLN CQVIGASVDS HFCHLAWINT PKKQGGLGPM NIPLISDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEIIRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVNK SKEYFSKQKL EHHHHHH
Tag:	His-tag
Predicted MW:	23.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Bioactivity:	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.
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_035164
Locus ID:	18477
UniProt ID:	P35700
Cytogenetics:	4 53.28 cM
Synonyms:	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 H₂O₂ (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: