

PRDX1 Protein, Mouse (His)

Cat. No.:	HY-P73713
Synonyms:	Peroxiredoxin-1; OSF-3; PRDX1; Msp23; Paga; Tdpx2
Species:	Mouse
Source:	E. coli
Accession:	P35700 (M1-K199)
Gene ID:	18477
Molecular Weight:	Approximately 27 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, 10% glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

PRDX1, a thiol-specific peroxidase, functions as a catalyst for the reduction of hydrogen peroxide and organic hydroperoxides, converting them into water and alcohols, respectively. Its pivotal role in cell protection against oxidative stress involves detoxifying peroxides and acting as a sensor for hydrogen peroxide-mediated signaling events. Additionally, PRDX1 may contribute to the signaling cascades initiated by growth factors and tumor necrosis factor-alpha, exerting control over intracellular H₂O₂ concentrations. Notably, PRDX1 exhibits the ability to reduce an intramolecular disulfide bond in GDPD5, thereby modulating GDPD5's capacity to drive postmitotic motor neuron differentiation. These diverse functions underscore the versatile and intricate regulatory roles of PRDX1 in cellular processes associated with redox signaling and differentiation.

Caution: Product has not been fully validated for medical applications. For research use only.

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