

## Peroxiredoxin-2/PRDX2 Protein, Mouse (sf9, His)

Cat. No.:	HY-P73712
Synonyms:	Peroxiredoxin-2; NKEF-B; TSA; PRDX2; TDPX1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q61171 (M1-N198)
Gene ID:	21672
Molecular Weight:	Approximately 24.1 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, pH 7.5, 150 mM NaCl, 10% Glycerol, 0.5 mM TCEP. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Peroxiredoxin-2/PRDX2 Protein functions as a thiol-specific peroxidase, adept at catalyzing the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. This protein assumes a crucial role in cellular protection against oxidative stress by efficiently detoxifying various peroxides, contributing significantly to the maintenance of cellular redox homeostasis. Additionally, PRDX2 acts as a sensor for hydrogen peroxide-mediated signaling events, implicating its involvement in modulating cellular responses to oxidative stress. Furthermore, it may participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating intracellular concentrations of H <sub>2</sub> O <sub>2</sub> , suggesting its potential impact on signaling pathways associated with cellular growth and inflammation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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