

Peroxiredoxin-2/PRDX2 Protein, Human (sf9, His)

Cat. No.:	HY-P73374
Synonyms:	Peroxiredoxin-2; NKEF-B; TSA; PRDX2; TDPX1
Species:	Human
Source:	Sf9 insect cells
Accession:	P32119 (M1-N198)
Gene ID:	7001
Molecular Weight:	Approximately 27 kDa

PROPERTIES

Biological Activity	Measured by its ability to reduce H ₂ O ₂ and the specific activity is >300 pmoles/min/μg.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 10% gly.
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

Peroxiredoxin-2 (PRDX2), a thiol-specific peroxidase, serves as a catalyst in the reduction of hydrogen peroxide and organic hydroperoxides, converting them into water and alcohols, respectively. Its vital role in cellular protection against oxidative stress involves detoxifying peroxides and acting as a sensor for hydrogen peroxide-mediated signaling events. PRDX2 may also participate in the signaling cascades initiated by growth factors and tumor necrosis factor-alpha, potentially influencing intracellular concentrations of H₂O₂. This versatile protein underscores its significance in cellular redox regulation and stress response pathways.

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

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