

Peroxiredoxin-2/PRDX2 Protein, Human (His)

Cat. No.:	HY-P71464
Synonyms:	Epididymis secretory sperm binding protein Li 2a; HEL S 2a; MGC4104; Natural killer cell enhancing factor B; Natural killer cell-enhancing factor B; Natural Killer Enhancing Factor B; NKEF B; NKEF-B; NKEFB; Peroxiredoxin 2; Peroxiredoxin-2; PRDX 2; PRDX2; PrP; PRX2; PRXII; PTX1; TDPX1; Thiol Specific Antioxidant 1 ; Thiol specific antioxidant protein; Thiol-specific antioxidant protein; Thioredoxin Dependent Peroxide Reductase 1; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxide reductase 1; Torin; TPX1; TSA
Species:	Human
Source:	E. coli
Accession:	P32119 (2A-198N)
Gene ID:	7001
Molecular Weight:	Approximately 25.8 kDa

PROPERTIES

AA Sequence	<pre> A S G N A R I G K P A P D F K A T A V V D G A F K E V K L S D Y K G K Y V V L F F Y P L D F T F V C P T E I I A F S N R A E D F R K L G C E V L G V S V D S Q F T H L A W I N T P R K E G G L G P L N I P L L A D V T R R L S E D Y G V L K T D E G I A Y R G L F I I D G K G V L R Q I T V N D L P V G R S V D E A L R L V Q A F Q Y T D E H G E V C P A G W K P G S D T I K P N V D D S K E Y F S K H N </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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 ₂ 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), 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
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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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