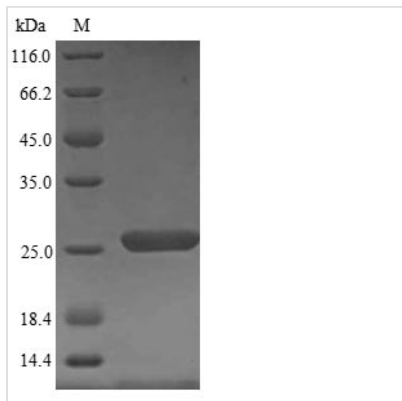




# Recombinant Human Peroxiredoxin-1 (PRDX1)

<b>Product Code</b>	CSB-YP018653HUa0
<b>Relevance</b>	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 H <sub>2</sub> O <sub>2</sub> . Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation
<b>Abbreviation</b>	Recombinant Human PRDX1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q06830
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSSGNAKIGH PAPNFKATAVMPDGQFKDISLSDYK GK YV V F F F Y P L D F T F V C P TEIIAFSDRAEEFKLNCQVIGASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSD PKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVGRSVD ETLRLVQAF QFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK
<b>Research Area</b>	Cardiovascular
<b>Source</b>	Yeast
<b>Target Names</b>	PRDX1
<b>Protein Names</b>	Natural killer cell-enhancing factor A Proliferation-associated gene protein Thioredoxin peroxidase 2 Thioredoxin-dependent peroxide reductase 2
<b>Expression Region</b>	1-199aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	24.1 kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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