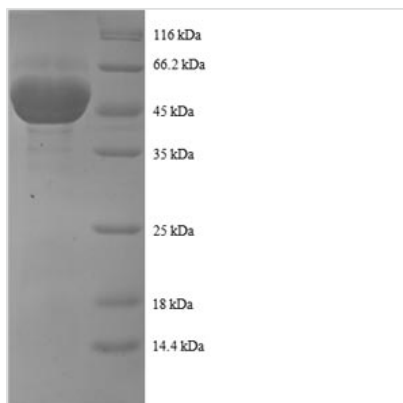




# Recombinant Human Peroxiredoxin-1 (PRDX1)

<b>Product Code</b>	CSB-EP018653HUe0
<b>Relevance</b>	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin syst but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. 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>Alias</b>	Natural killer cell-enhancing factor A ;NKEF-AProliferation-associated gene protein ;PAGThioredoxin peroxidase 2Thioredoxin-dependent peroxide reductase 2
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 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 T E I I A F S D R A E E F K K L N C Q V I G A S V D S H F C H L A W V N T P K K Q G G L G P M N I P L V S D P K R T I A Q D Y G V L K A D E G I S F R G L F I I D D K G I L R Q I T V N D L P V G R S V D E T L R L V Q A F Q F T D K H G E V C P A G W K P G S D T I K P D V Q K S K E Y F S K Q K
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Target Names</b>	PRDX1
<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 GST-tagged
<b>Mol. Weight</b>	49.1kDa
<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

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.