

## Recombinant *Cricetulus Griseus* PRDX1 Protein (2-199 aa), His-tagged

Cat. No. PRDX1-2033C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant <i>Cricetulus Griseus</i> (Chinese hamster) ( <i>Cricetulus barabensis griseus</i> ) PRDX1 Protein (2-199 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length of Mature Protein.
<b>Species</b>	<i>Cricetulus Griseus</i>
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-199 aa
<b>Description</b>	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system 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 H <sub>2</sub> O <sub>2</sub> (By similarity). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity).
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	26.1 kDa
<b>AA Sequence</b>	SSGNAKIGYPAPNFKATAVMPDGQFRDICLESEYRGKYVFFFYPLDFTFVCPTEIIAF

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SDRAEEFKKLNQVIGASVDSHFCHLAWINTPKKQGGLGPMNIPLVSDPKRTIAQDY  
 GVLKADEGISFRGLFIIDDKGILRQITINDLPVGRSVDEILRLVQAFQFTDKHGEVCPA  
 GWKPGSDTIKPDVQKSKEYFSKQK

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products.

## GENE INFORMATION

**Gene Name** Prdx1 peroxiredoxin 1 [ *Cricetulus griseus* (Chinese hamster) ]

**Official Symbol** PRDX1

**Synonyms** TDPX2; TPX-2;

**Gene ID** 100689332

**mRNA Refseq** NM\_001246765

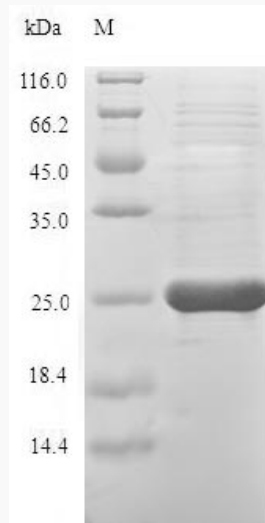
**Protein Refseq** NP\_001233694

**UniProt ID** Q9JKY1

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

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