

## PRDX1 Protein, Cricetulus griseus, Recombinant (His)

### General Information

Synonyms:	TDPX2;PRDX1;Peroxioredoxin-1;Thioredoxin-dependent peroxiredoxin 1;Thioredoxin peroxidase 2 (TPX-2)
Protein Construction:	2-199 aa
Species:	Chinese hamster
Expression Host:	P. pastoris (Yeast)
Accession:	Q9JKY1
Molecular Weight:	24.2 kDa (predicted)
AA Sequence:	SSGNAKIGYPAPNFKATAVMPDGQFRDICLEYRGKYVFFFYPLDFTFVCPTEIIAFSDRAEEFKLNCQVIGA SVDSHFCHLAWINTPKKQGGLGPMNIPLVSDPKRTIAQDYGVLKADEGISFRGLFIIDDKGILRQITINDLPVGR SVDEILRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481