

# Recombinant Mouse Peroxiredoxin 5/PRDX5 Protein (His Tag)



Catalog Number:PKSM040619

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

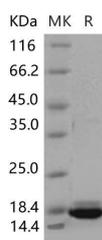
## Description

<b>Synonyms</b>	AOEB166;AOPP;Pmp20;Prdx6;PrxV
<b>Species</b>	Mouse
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 49-Leu 210
<b>Accession</b>	P99029-1
<b>Calculated Molecular Weight</b>	18.5 kDa
<b>Observed molecular weight</b>	18.5 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measured by its ability to reduce H <sub>2</sub> O <sub>2</sub> . The specific activity is > 100 pmoles/min/μg.

## Properties

<b>Purity</b>	> 92 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 92 % as determined by reducing SDS-PAGE.

## Background

Peroxiredoxin-5, also known as Alu corepressor 1, Antioxidant enzyme B166, Liver tissue 2D-page spot 71B, Peroxisomal antioxidant enzyme, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5 and ACR1, is cytoplasm protein which belongs to the peroxiredoxin 2 family. Peroxiredoxin-5 / PRDX5 reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Peroxiredoxin-5 / PRDX5 is involved in intracellular redox signaling. The Peroxiredoxins / Prx are a family of 25 kDa peroxidases that can reduce H<sub>2</sub>O<sub>2</sub> using an electron from thioredoxin (Trx) or other substances. The mammalian Peroxiredoxins / Prx family is

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Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

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divided into six groups ( PRDX1, PRDX2, PRDX3, PRDX4, PRDX5, PRDX6 ) on the basis of homology of amino acid sequences. They are located in the cytosol and play a role in the cell signaling system. All six mammalian peroxiredoxins are expressed in the lung. Peroxiredoxins / Prx is overexpressed in breast cancer tissues to a great extent suggesting that Peroxiredoxins / Prx has a proliferative effect and may be related to cancer development or progression.

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