

Recombinant Human Peroxiredoxin 5/PRDX5 Protein (His Tag)



Catalog Number:PKSH032885

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

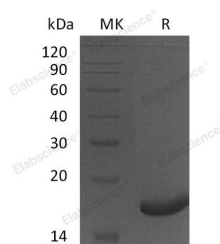
Description

| | |
|------------------------------------|---|
| Synonyms | Peroxiredoxin-5;PRDX5;Alu corepressor 1;Antioxidant enzyme B166;AOEB166;Liver tissue 2D-page spot 71B;PLP;Peroxiredoxin V;Prx-V;Peroxisomal antioxidant enzyme;TPx type VI;Thioredoxin peroxidase PMP20;Thioredoxin reductase |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met53-Leu214 |
| Accession | P30044 |
| Calculated Molecular Weight | 17.9 kDa |
| Observed molecular weight | 17 kDa |
| Tag | N-His |

Properties

| | |
|-----------------------|---|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | 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. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. 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. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Peroxisomes are essential organelles that participate in multiple important metabolic processes, including the β -oxidation of fatty acids, plasmalogen synthesis, and the metabolism of reactive oxygen species (ROS). Peroxiredoxins is overexpressed in breast cancer tissues to a great extent suggesting that they has a proliferative effect and may be related to cancer development or progression. Peroxiredoxin 5 (PRDX5) is a thioredoxin peroxidase that belongs to the atypical 2-Cys class of the TSA/ahpC family of peroxiredoxins. PRDX5 is a widely expressed mitochondrial antioxidant enzyme

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that reduces hydrogen peroxide, alkyl hydroperoxides, and peroxynitrite. In human cells, this enzyme is present in the cytosol, mitochondria, peroxisomes, and nucleus.

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