

PRDX5 Protein, Human, Recombinant (His)

General Information

Synonyms:	Antioxidant enzyme B166;Alu corepressor 1;Peroxioredoxin-5;PLP;Peroxioredoxin V;AOEB166; Liver tissue 2D-page spot 71B;Thioredoxin reductase;PRDX5;TPx type VI;Thioredoxin peroxidase PMP20;Peroxisomal antioxidant enzyme;Prx-V
Protein Construction:	Met53-Leu214
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P30044
Molecular Weight:	17 KDa (reducing condition)
AA Sequence:	Met53-Leu214

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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
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. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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