

Recombinant Human Peroxiredoxin 1/PRDX1 Protein (His Tag)



Catalog Number:PKSH032881

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

Description

Synonyms

Peroxiredoxin-1;Natural killer cell-enhancing factor A;NKEF-A;Proliferation-associated gene protein;PAG;Thioredoxin peroxidase 2;Thioredoxin-dependent peroxide reductase 2;PAGA;PAGB;TDPX2;MSP23;NKEF-A;NKEFA;PAG;PRX1;PRXI;TDPX2

Species

Human

Expression Host

E.coli

Sequence

Met 1-Lys199

Accession

Q06830

Calculated Molecular Weight

25.3 kDa

Observed molecular weight

26 kDa

Tag

N-His & C-His

Properties

Purity

> 95 % as determined by reducing SDS-PAGE.

Endotoxin

< 1.0 EU per μ g of the protein as determined by the LAL method.

Storage

Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping

This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.

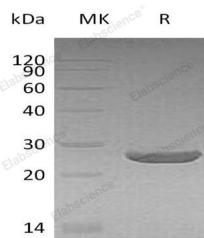
Formulation

Supplied as a 0.2 μ m filtered solution of PBS, 10% glycerol, 0.1mM DTT,pH 6.0.

Reconstitution

Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Peroxiredoxin-1(PRDX1) contains 1 thioredoxin domain and belongs to the AhpC/TSA family. PRDX1 constitutively expressed in most human cells and it is induced to higher levels upon serum stimulation in untransformed and transformed cells. PRDX1 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin and play an important role in eliminating peroxides generated during metabolism. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂. It reduces an intramolecular disulfide bond in GPD5 that gates the ability to GPD5 to drive postmitotic motor neuron differentiation. It may contribute to the antiviral activity of CD8(+) T-cells and have a proliferative effect in cancer development or progression.

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