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Recombinant Human Peroxiredoxin 1/PRDX1 Protein (His Tag)

Catalog No. 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

SequenceMet 1-Lys199AccessionQ06830Calculated Molecular Weight25.3 kDaObserved molecular weight26 kDa

Tag N-His & C-His

Bioactivity Not validated for activity

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

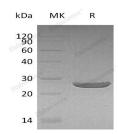
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm 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

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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 GDPD5 that gates the ability to GDPD5 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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