

Recombinant Human PRDX1 Protein (1-199 aa), His-tagged

Cat. No. PRDX1-2430H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRDX1 Protein (1-199 aa) is produced by Yeast expression system. This protein is fused with a 10xHis tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-199 aa
Description	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H ₂ O ₂ . Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	24.6 kDa
AA Sequence	MSSGNAKIGH PAPNFKATAVMPDGQFKDISLSYKGGKYVVFYPLDFTFVCPTEIIA FSDRAEEFKKLNCQVIGASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQ DYGVLKADEGISFRGLFIIDDKGILRQITVNDLPVGRSVDLRLVQAFQFTDKHGEV

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CPAGWKPGSDTIKPDVQKSKEYFSKQK

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name [PRDX1 peroxiredoxin 1 \[Homo sapiens \]](#)

Official Symbol [PRDX1](#)

Synonyms PRDX1; peroxiredoxin 1; PAGA; peroxiredoxin-1; NKEFA; NKEF-A; PAG; PAGB; PRX1; PRXI; MSP23; TDPX2;

Gene ID [5052](#)

mRNA Refseq [NM_001202431](#)

Protein Refseq [NP_001189360](#)

MIM [176763](#)

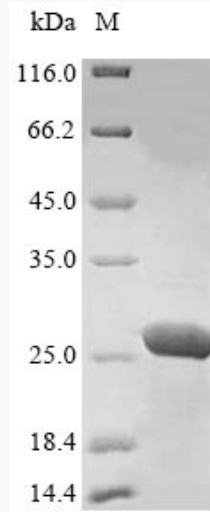
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UniProt ID

Q06830



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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