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Datasheet for ABIN7318891

Peroxiredoxin 4 Protein (PRDX4) (His tag)

Overview

Quantity:	50 µg
Target:	Peroxiredoxin 4 (PRDX4)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Peroxiredoxin 4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Peroxiredoxin-4/PRDX4 Protein (His Tag)
Sequence:	Trp38-Asn271
Characteristics:	Recombinant Human Peroxiredoxin-4 is produced by our E.coli expression system and the target gene encoding Trp38-Asn271 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Peroxiredoxin 4 (PRDX4)
Alternative Name:	Peroxiredoxin-4/PRDX4 (PRDX4 Products)
Background:	Background: Peroxiredoxin-4 (PRDX4) is a member of the AhpC/TSA family. PRDX4 is a cytoplasmic protein and contains one thioredoxin domain. PRDX4 exists in homodimer or heterodimer with PRDX1. PRDX4 reduces hydrogen peroxide and alkyl hydroperoxides to water

Target Details

and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. In addition, PRDX4 is probably involved in redox regulation of the cell, regulating the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation.

Synonym: Peroxiredoxin-4, Antioxidant Enzyme AOE372, AOE37-2, Peroxiredoxin IV, Prx-IV, Thioredoxin Peroxidase A0372, Thioredoxin-Dependent Peroxide Reductase A0372, PRDX4

Molecular Weight: 33.8 kDa

UniProt: [Q13162](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM DTT, pH 7.2.

Storage: -20 °C

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