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Datasheet for ABIN1097320

Peroxiredoxin 4 Protein (PRDX4) (AA 38-271) (His tag)

Overview

Quantity:	50 µg
Target:	Peroxiredoxin 4 (PRDX4)
Protein Characteristics:	AA 38-271
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 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MWETEERPRT REEECHFYG QQVYPGEASR VSVADHSLHL SKAKISKAP YWEGTAVIDG EFKEKLTDY RGKYLVEFFY PLDFTFVCPT EIIAFGDRLE EFRSINTEVV ACSVDSQFTH LAWINTPRRQ GGLGPIRIPL LSDLTHQISK DYGVYLED SG HTLRGLFIID DKGILRQITL NDLPGVGRSVD ETLRLVQAFQ YTDKHGEVCP AGWKPGSETI IPDPAGKLKY FDKLN
Characteristics:	Recombinant Human Peroxiredoxin-4/PRDX4 is produced by our E. coli expression system. The target protein is expressed with sequence (Trp38-Asn271) of Human PRDX4 fused with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Peroxiredoxin 4 (PRDX4)
Alternative Name:	Peroxiredoxin-4/PRDX4 (PRDX4 Products)
Sub Type:	Fusionprotein
Background:	<p>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 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.</p> <p>Alternative Names: Peroxiredoxin-4, Antioxidant Enzyme AOE372, AOE37-2, Peroxiredoxin IV, Prx-IV, Thioredoxin Peroxidase A0372, Thioredoxin-Dependent Peroxide Reductase A0372, PRDX4</p>
Molecular Weight:	33.8 kDa
UniProt:	Q13162

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM DTT, pH 7.2.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>

Handling

Expiry Date: 6 months