

Human PRDX4 Recombinant Protein



RPPB2180

Product Information Protein Information

Product SKU:

RPPB2180

Accession:

Q13162

Host:

Escherichia Coli.

Protein description:

PRDX4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 255 amino acids (38-271 a.a.) and having a molecular mass of 28.8kDa. PRDX4 protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography.

Appearance:

Sterile filtered colorless solution.

Synonyms:

EC 1.11.1.15, AOE37-2, Peroxiredoxin-IV, Prx-IV, Thioredoxin peroxidase A0372, Thioredoxin-dependent peroxide reductase A0372, Antioxidant enzyme AOE372.

Formulation:

PRDX4 Human solution containing 20mM Tris-HCl pH-8 & 10% glycerol.

Purity:

Greater than 95% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SSSLVPRGSH MWETEERPT REECHFYAG GQVYPGEASR VSVADHSLHL SKAKISKPAP
YWEGTAVIDG EFKELKLDY RGKYLFFFY PLDFTFVCPT EIIAFGDRLE EFRSINTEVV ACSVDSQFTH
LAWINTPRRQ GGLGPIRIPL LSDLTHQISK DYGVYLED SG HTLRGLFIID DKGILRQITL NDLPVGRSVD
ETLRLVQAFQ YTDKHGEVCP AGWKPGSETI IPDPAGKLY FDKLN.

Biological Activity:

Specific activity: approximately 230-310 pmole/min/µg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX4 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1µg of enzyme can reduce at 25 C for 1 minute.