



# Recombinant Human Peroxiredoxin-4 (PRDX4)

<b>Product Code</b>	CSB-EP621653HU-B
<b>Abbreviation</b>	PRDX4
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q13162
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	WET EERPRTRREE CHFYAGGQVY PGEASRVSA DHSLHLSKAK ISKPAPYWEG TAVIDGEFKE LKLTDIRGKY LVFFFYPLDF TFVCPTEIIA FGDRLEEFRS INTEVVACSV DSQFTHLAWI NTPRRQGGLG PIRIPLLSDL THQISKDYGV YLEDSGHTLR GLFIIDDKGI LRQITLNDLP VGRSVDETLR LVQAFQYTDK HGEVCPAGWK PGSETIIPDP AGKLYFDKL N
<b>Source</b>	E.coli
<b>Target Names</b>	PRDX4
<b>Protein Names</b>	Recommended name: Peroxiredoxin-4 EC= 1.11.1.15 Alternative name(s): Antioxidant enzyme AOE372 Short name= AOE37-2 Peroxiredoxin IV Short name= Prx-IV Thioredoxin peroxidase AO372 Thioredoxin-dependent peroxide red
<b>Expression Region</b>	38-271
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.