# Human Peroxiredoxin 2/PRDX2 (His Tag) recombinant protein

Catalog Number: 500441



#### **General Information**

#### Gene Name Synonym

Natural killer cell-enhancing factor B; PRP; Thiolspecific antioxidant protein; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxide reductase 1

## **Protein Construction**

A DNA sequence encoding the human PRDX2 (P32119) (Met 1-Asn 198) was expressed, with a polyhistidine tag at the N-terminus.

# **Organism**

Human

## **Expression Host**

Baculovirus-Insect Cells

# **QC Testing**

# **Activity**

Measured by its ability to reduce H2O2. The specific activity is >300 pmoles/min/μg.

# **Purity**

> 92 % as determined by SDS-PAGE

## **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

## **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

#### **Predicted N terminal**

Met

#### **Molecular Mass**

The recombinant human PRDX2 consists of 217 amino acids and predicts a molecular mass of 24 kDa. It migrates as an approximately 27 kDa band in SDS-PAGE under reducing conditions.

#### **Formulation**

Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 10% gly

- 1. 5 % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

# **Usage Guide**

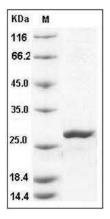
# **Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

#### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**



Human Peroxiredoxin 2 / PRDX2 Protein (His Tag) SDS-PAGE