

Peroxisredoxin-2F, mitochondrial (PRXIIF), Recombinant Protein

Cat RP13445

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Peroxisredoxin-2F, mitochondrial (PRXIIF)

Product Gene Name

PRXIIF recombinant protein

Product Synonym Gene Name

PRXIIF

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

ASVSGSGSDIV SAAPGVSLQK ARSWDEGVAT NFSTTPLKDI FHGKKVVIFG LPGAYTGVCS QAHVPSYKNN
IDKLKAKGVD SVICVSVNDP YALNGWAEKL QAKDAIEFYG DFDGSFHKSL DLEVDLAAL LGRRSHRWSA
FVDDGKIKAF NVEVAPSDFK VSGAEVILDQ I

Sequence Positions

28-198, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

20,874 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Peroxisredoxin

NCBI Accession

XP_015621284.1

NCBI GI

1002234153

NCBI GenBank Nucleotide

XM_015765798.1

NCBI GeneID

4324376

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Peroxiredoxin-2F, mitochondrial (PRXIIF), Recombinant Protein

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mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

peroxiredoxin-2F, mitochondrial

NCBI Official Symbol

LOC4324376

NCBI Official Synonym Symbols

PRXIIF; P0011D01.6

NCBI Protein Information

peroxiredoxin-2F, mitochondrial

UniProt Gene Name

PRXIIF

UniProt Protein Name

Peroxiredoxin-2F, mitochondrial

UniProt Synonym Protein Names

Peroxiredoxin IIF; Thioredoxin peroxidase 2F

UniProt Primary Accession

Q9SDD6

UniProt Secondary Accession

B7E2T3

UniProt Related Accession

Q9SDD6

UniProt Comments

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides. Reduces preferentially hydrogen peroxide rather than alkyl peroxides. May be involved in mitochondrial redox homeostasis.

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