

Peroxidase 72 (PER72), Recombinant Protein

Cat RP05391

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Peroxidase 72 (PER72)

Product Gene Name

PER72 recombinant protein

Product Synonym Gene Name

PER72

Purity

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

Sequence

SKAYGSGGYL FPQFYDQSCP KAQEIVQSIV AKAFEHDP RM PASLLRLHFH DCFVKGCDAS ILLDSSGTII
SEKRSNP NRN SARGFELIEE IKHALEQEC P ETVSCADILA LAARDSTVIT GGPSWEVPLG RRDARGASLS
GSNNDIPAPN NTFQTILTKF KRQGLDLVDL VSLSGSHTIG NSRCTSFRQR LYNQSGNGKP DMTLSQYYAT
LLRQRCPRSG GDQTLFFLDF ATPFKFDNHY FKNLIMYKGL LSSDEILFTK NKQSKELVEL YAENQEAFFE
QFAKSMVKMG NISPLTGAKG EIRRICRRVN HAY

Sequence Positions

24-336, 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

37,427 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

Peroxidase

NCBI Accession

NP_201440.1

NCBI GI

15239370

NCBI GenBank Nucleotide

NM_126037.5

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

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

NCBI GeneID

836771

NCBI Official Full Name

Peroxidase superfamily protein

NCBI Official Symbol

AT5G66390

NCBI Official Synonym Symbols

K1F13.4; K1F13_4; PEROXIDASE 72; PRX72

NCBI Protein Information

Peroxidase superfamily protein

NCBI Summary

Encodes a peroxidase that is involved in lignin biosynthesis.

UniProt Gene Name

PER72

UniProt Synonym Gene Names

P72; Atperox P72

UniProt Protein Name

Peroxidase 72

UniProt Synonym Protein Names

ATP6a; PRXR8

UniProt Primary Accession

Q9FJZ9

UniProt Secondary Accession

Q43736

UniProt Related Accession

Q9FJZ9

UniProt Comments

Removal of H₂O₂, oxidation of toxic reductants, biosynthesis and degradation of lignin, suberization, auxin catabolism, response to environmental stresses such as wounding, pathogen attack and oxidative stress. These functions might be dependent on each isozyme/isoform in each plant tissue.

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