

# Peroxidase 73 (PER73), Recombinant Protein

Cat RP05239

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-  
Arabidopsis thaliana (Mouse-ear cress)  
Cell)

## Species

## Full Product Name

Recombinant Arabidopsis thaliana Peroxidase 73 (PER73)

## Product Gene Name

PER73 recombinant protein

## Product Synonym Gene Name

PER73

## Purity

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

## Sequence

QLKTNFYGNS CPNVEQIVKK VVQEKIKQTF VTIPATLRLF FHDCFVNGCD ASVMIQSTPT NKAEKDHPDN  
ISLAGDGFVD VIKAKKALDA IPSCKNKVSC ADILALATRD VVVAAGPSY AVELGRFDGL VSTAASVNGN  
LPGPNKVKTE LNKLFAKNKL TQEDMIALSA AHTLGFAHCG KVFNRIYNFN LTHAVDPTLN KAYAKELQLA  
CPKTVDPRIA INMDPTTPRQ FDNIYFKNLQ QGKGLFTSDQ VLFTDGRSKP TVNDWAKNSV AFNKAFVTAM  
TKLGRVGVKT RRNGNIRRDG GAFN

## Sequence Positions

26-329, 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

35,927 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\_201541.1

## NCBI GI #

15240737

## NCBI GenBank Nucleotide #

NM\_126140.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

# Peroxidase 73 (PER73), Recombinant Protein

Cat RP05239

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)

## NCBI GeneID

836876

## NCBI Official Full Name

root hair specific 19

## NCBI Official Symbol

RHS19

## NCBI Official Synonym Symbols

K8K14.13; K8K14\_13; root hair specific 19

## NCBI Protein Information

root hair specific 19

## UniProt Gene Name

PER73

## UniProt Synonym Gene Names

P73; Atperox P73

## UniProt Protein Name

Peroxidase 73

## UniProt Synonym Protein Names

ATP10a; PRXR11

## UniProt Primary Accession #

Q43873

## UniProt Related Accession #

Q43873

## UniProt Comments

Removal of H<sub>2</sub>O<sub>2</sub>, 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.

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**