

# Neutral peroxidase, Recombinant Protein

Cat *RP15394*

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*

**Species** *mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*  
Ipomoea batatas (Sweet potato) (Convolvulus batatas)

## Full Product Name

Recombinant Ipomoea batatas Neutral peroxidase

## Purity

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

## Sequence

DSNCVFSAVK EIVDAAITAE TRMGASLIRL HFHDCFVDGC DGGILLNDDTA NFTGEQGAPA NSNSVRGFSV  
IDQAKRNAQT KCADTPVSCA DVLAI AARDA FRKFTNQTYN ITLGRQDART ANLTGANTQL PAPFDNLSIQ  
TAKFADKGFN QREMVVLAGA HTVGF SRC AV LCTSTNLNQN RSATLQCTCP ASANDTGLVG LDPSPGTFDK  
KYFEELVKGQ GLLFSDQELM QSNATVTAVR RYRDATGAFL TDFAAAMVKM SNLPPSAGVQ LEIRNVCSR V N

## Sequence Positions

68-348, 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

37,186 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

Neutral peroxidase

## NCBI Accession #

O04796.1

## NCBI GI #

33516948

## NCBI Official Full Name

Neutral peroxidase

## UniProt Protein Name

Neutral peroxidase

## UniProt Synonym Protein Names

SwPN1

## UniProt Primary Accession #

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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

## 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.

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