

L-ascorbate peroxidase 2, cytosolic (APX2), Recombinant Protein

Cat *RP11324*

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)/ 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

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* L-ascorbate peroxidase 2, cytosolic (APX2)

Product Gene Name

APX2 recombinant protein

Product Synonym Gene Name

APX2

Purity

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

Sequence

MGSKSYPTVS DEYLA AVGKA KRKLRGLIAE KNCAPLMLRL AWH SAGTFDV SSRTGGPFGT MKNPGEQSHA
ANAGLDIAVR LLDPIKDQLP ILSYADFYQL AGVVAVEVTG GPEVPFHPGR QDKPEPPPEG RLPDATQGSD
HLRQVFS AQM GLSDKDIAL SGGHTLGRCH KERSGFEGAW TSNPLIFDNS YFTELVSGEK ELLQLPSDK
ALMADPAFRP LVEKYAADED AFFADYAEAH LKLSELGFAE E

Sequence Positions

1-251, 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

27,118 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

L-ascorbate peroxidase

NCBI Accession

XP_015646556.1

NCBI GI

1002284509

NCBI GenBank Nucleotide

XM_015791070.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

L-ascorbate peroxidase 2, cytosolic (APX2), Recombinant Protein

Cat *RP11324*

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)/ 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

4344397

NCBI Official Full Name

L-ascorbate peroxidase 2, cytosolic

NCBI Official Symbol

LOC4344397

NCBI Official Synonym Symbols

APX2; APXb; SS622; OsAPx02

NCBI Protein Information

L-ascorbate peroxidase 2, cytosolic

UniProt Gene Name

APX2

UniProt Protein Name

L-ascorbate peroxidase 2, cytosolic

UniProt Synonym Protein Names

APXb

UniProt Primary Accession

Q9FE01

UniProt Secondary Accession

Q0D3B8; Q40735

UniProt Related Accession

Q9FE01

UniProt Comments

Plays a key role in hydrogen peroxide removal (PubMed:15685422). Plays an important role in plant growth and development by protecting the seedlings from abiotic stresses through scavenging reactive oxygen species. Required for pollen viability (PubMed:23468992).

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY