

Expansin-A4 (EXPA4), Recombinant Protein

Cat *RP12318*

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

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

Full Product Name

Recombinant Oryza sativa subsp. indica Expansin-A4 (EXPA4)

Product Gene Name

EXPA4 recombinant protein

Purity

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

Sequence

AGYGGWQSAH ATFYGGGDAS GTMGGACGYG NLYSQGYGTN TAALSTALFN DGAACGSCYE
LRCDNAGSSC LPGSITVTAT NFCPPNYGLP SDDGGWCNPP RPHFDMAEPA FLHIAQYRAG IVPVSFRRVP
CVKKGGRVFT VNGHSYFNLV LVTNVAGAGD VRSVSIKGSR TGWQPMSRNW GQNWQSN AFL DGQSLSFQVT
ASDGRVTSTN NVAHPGWQFG QTFEQQF

Sequence Positions

19-246, 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

25,884 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

Expansin

NCBI Accession

A2Y5R6.1

NCBI GI

152032434

NCBI Official Full Name

Expansin-A4

UniProt Gene Name

EXPA4

UniProt Synonym Gene Names

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

EXP4 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell)
Expansin-A4

UniProt Protein Name

UniProt Synonym Protein Names

Alpha-expansin-4; OsEXP4; OsEXPA4; OsaEXPa1.22

UniProt Primary Accession

A2Y5R6

UniProt Secondary Accession

P93442; Q75GN4; Q946J0

UniProt Comments

Causes loosening and extension of plant cell walls by disrupting non-covalent bonding between cellulose microfibrils and matrix glucans. No enzymatic activity has been found. Required for normal plant growth. May be required for rapid internodal elongation in deepwater rice during submergence.

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