

Expansin-A15 (EXPA15), Recombinant Protein

Cat *RP13452*

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. japonica (Rice)
Cell)

Full Product Name

Recombinant Oryza sativa subsp. japonica Expansin-A15 (EXPA15)

Product Gene Name

EXPA15 recombinant protein

Product Synonym Gene Name

EXPA15

Purity

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

Sequence

GWSSGTATFY GGSDASGTMG GACGYGNLYW SGYGTNTAAL SSALFNDGAS CGQCYQIACD
HQAEPRWCLQ GRTVTITGTN LCPPNYALSS NDGGWCNPPR THFDMAEPAW LQIGIYKAGI VPVLYQRVPC
VKQGGVRFTM GGFNYFELVL ISNVAGSGSI QSVWVKGPNT DRMPLSRNWG ANWQSHAGLV GQTLTFGVTS
TGGQTLVFQN IVPAAWWKFGQ SFSSNLQFSY

Sequence Positions

31-260, 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

27,798 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

XP_015629199.1

NCBI GI

1002250012

NCBI GenBank Nucleotide

XM_015773713.1

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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107277053 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg

(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-

Cell)
expansin-A15

NCBI Official Full Name

NCBI Official Symbol

LOC107277053

NCBI Official Synonym Symbols

EXP15; EXPA15; OsEXP15; OsEXPA15; OsaEXPa1.8

NCBI Protein Information

expansin-A15

UniProt Gene Name

EXPA15

UniProt Synonym Gene Names

EXP15

UniProt Protein Name

Expansin-A15

UniProt Synonym Protein Names

Alpha-expansin-15; OsEXP15; OsEXPA15; OsaEXPa1.8

UniProt Primary Accession

Q4PR50

UniProt Secondary Accession

Q8LMP7; Q946I6

UniProt Related Accession

Q4PR50

UniProt Comments

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

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