

Alpha-amylase isozyme 3D (AMY1.3), Recombinant Protein

Cat RP13440

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)
Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Alpha-amylase isozyme 3D (AMY1.3)

Product Gene Name

AMY1.3 recombinant protein

Purity

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

Sequence

QVLFQGFNWE SWKQQGGWYN MLKGQVDDIA KAGVTHVWLP PPSHSVAPQG YMPGRLYDLD
ASKYGTAAEL KSLIAAFHGK GVQCVADVVI NHRCAEKKDA RGVYCVFEGG TPDDRDLWGP GMICSDDTQY
SDGTGHRDTG EGFGAAPDID HLNPRVQREL TDWLNWLKSD VGFDGWRLDF AKGYSTDIK MYVESCKPGF
VVAEIWNSLS YNGDGKPAAN QDQGRQELVN WVNAVGGPAM TFDFTTKGLL QAGVQGELWR
LRDGNKAAG MIGWLPEKAV TFVDNHDGTS TQKLWPFPSD KVMQGYAYIL THPGVPCIFY DHMFDWNLKQ
EITALAAIRE RINGINAGSKL RIVVADADAY VAVVDEKVMV KIGTRYDVGN AVPSDFHQTV HGKDYSVWEK
GSLRVPAGRH L

Sequence Positions

26-436, 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

48,000 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

Alpha-amylase

NCBI Accession

P27933.2

NCBI GI

78099755

NCBI GeneID

4345814

NCBI Official Full Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP13440*

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 Official Symbol
LOC4345814

NCBI Official Synonym Symbols

AMY3D; AMY1.3; RAmy3D

NCBI Protein Information

alpha-amylase isozyme 3D

UniProt Gene Name

AMY1.3

UniProt Synonym Gene Names

AMY3D

UniProt Protein Name

Alpha-amylase isozyme 3D

UniProt Synonym Protein Names

1,4-alpha-D-glucan glucanohydrolase

UniProt Primary Accession

P27933

UniProt Secondary Accession

Q6ZDD5

UniProt Related Accession

P27933

UniProt Comments

Important for breakdown of endosperm starch during germination. Miscellaneous Binds starch not only at the active site, but also via accessory binding sites on the protein surface that are important for efficient binding to starch granules and thereby increase enzyme activity.

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