

Xyloglucan endotransglucosylase/hydrolase protein 22 (XTH22), Recombinant Protein

Cat *RP05472*

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 Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Xyloglucan endotransglucosylase/hydrolase protein 22 (XTH22)

Product Gene Name

XTH22 recombinant protein

Product Synonym Gene Name

XTH22

Purity

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

Sequence

NFQRDVEITW GDGRGQIKNN GELLTSLDK SSGSGFQSKN EYLFGKVSMQ MKLVPGNSAG TVTTLYLKSP
GTTWDEIDFE FLGNSSGEPY TLHTNVYTQG KGDKEQQFKL WFDPTANFHT YLILWNPQRI IFTVDGTPIR
EFKNMESLGT LFPKNKPMRM YSSLWNADDW ATRGGLVKTD WSKAPFTASY RGFQQEACVW
SNGKSSCPNA SKQGTGTSW LSQELDSTAQ QRMRWVQRNY MIYNYCTDAK RFPQGLPKEC LAA

Sequence Positions

22-284, 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

32,093 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

Xyloglucan endotransglucosylase/hydrolase protein

NCBI Accession

NP_200564.1

NCBI GI

15242781

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide

NM_125137.4

NCBI GeneID

835860

NCBI Official Full Name

Xyloglucan endotransglucosylase/hydrolase family protein

NCBI Official Symbol

TCH4

NCBI Official Synonym Symbols

MUA2.13; MUA2_13; Touch 4; XTH22; xyloglucan endotransglucosylase/hydrolase 22; XYLOGLUCAN ENDOTRANGLYCOSYLASE

NCBI Protein Information

Xyloglucan endotransglucosylase/hydrolase family protein

NCBI Summary

Encodes a cell wall-modifying enzyme, rapidly upregulated in response to environmental stimuli

UniProt Gene Name

XTH22

UniProt Synonym Gene Names

TCH4; At-XTH22; XTH-22

UniProt Protein Name

Xyloglucan endotransglucosylase/hydrolase protein 22

UniProt Synonym Protein Names

Touch protein 4

UniProt Primary Accession

Q38857

UniProt Secondary Accession

Q8H783

UniProt Related Accession

Q38857

UniProt Comments

Catalyzes xyloglucan endohydrolysis (XEH) and/or endotransglycosylation (XET). Cleaves and religates xyloglucan polymers, an essential constituent of the primary cell wall, and thereby participates in cell wall

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell).
construction of growing tissues. Its induction in case of mechanical stress, suggests that it may contribute in the
adaptive changes in morphogenesis by being recruited to alter tissues tensile strength, or flexibility, enabling
adaptation to mechanically stressful environments.

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