

Probable cinnamyl alcohol dehydrogenase 8A (CAD8A), Recombinant Protein

Cat RP12571

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)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Probable cinnamyl alcohol dehydrogenase 8A (CAD8A)

Product Gene Name

CAD8A recombinant protein

Product Synonym Gene Name

CAD8A

Purity

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

Sequence

MEHDGTAALG WAARDASGHL SPFSFTRRVQ EEDDVTIKVL YCGICHTDLH TIKNEWGNAM YPVVPGHEIV
GVVAGVGAGV TRFKAGDTVG VGYFVDS CRA CDSCGKGDEN YCPTMVITSN GTDYG GATTQ GGFSDVMVVR
QDYVLRVPAS LPPDGAAPLL CAGVTVYSPM VEYGLNAPGK HLGVVGLGGL GHLGVKFGKA FGMKVTVISS
SPAKREEALE RLGADAF LSS RDGEGMAAAA ATMDGIIDTV SAGHPLVPLL SLLKPKGQMV VVGAPAAPLQ
LPAIAIIDGG KRVAGSGGGS VAECQAMLDF AGEHGIAADV EVVAMGDVNA ALGR LERNDV RYRFVIDVAG
TLHAAAAPS

Sequence Positions

1-359, 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

36,837 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

Probable cinnamyl alcohol dehydrogenase

NCBI Accession

XP_015651435.1

NCBI GI

1002294215

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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)

NCBI GenBank Nucleotide

XM_015795949.1

NCBI GeneID

4346988

NCBI Official Full Name

probable cinnamyl alcohol dehydrogenase 8A

NCBI Official Symbol

LOC4346988

NCBI Official Synonym Symbols

CAD8A; OsCAD8A; P0650H04.9

NCBI Protein Information

probable cinnamyl alcohol dehydrogenase 8A

UniProt Gene Name

CAD8A

UniProt Synonym Gene Names

OsCAD8A

UniProt Protein Name

Probable cinnamyl alcohol dehydrogenase 8A

UniProt Primary Accession

Q6ERX1

UniProt Secondary Accession

A0A0P0XLT8

UniProt Related Accession

Q6ERX1

UniProt Comments

Involved in lignin biosynthesis. Catalyzes the final step specific for the production of lignin monomers. Catalyzes the NADPH-dependent reduction of coniferaldehyde, 5-hydroxyconiferaldehyde, sinapaldehyde, 4-coumaraldehyde and caffeyl aldehyde to their respective alcohols.

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