1,4-alpha-glucan-branching enzyme 3, chloroplastic/amyloplastic (SBE3), Recombinant Protein



Cat RP01823

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana 1,4-alpha-glucan-branching enzyme 3, chloroplastic/amyloplastic (SBE3) , partial

Product Gene Name

SBE3 recombinant protein

Purity

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

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

103,219 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

1,4-alpha-glucan branching enzyme

NCBI Accession

NP 001154629.1

NCBI GI#

238479829

NCBI GenBank Nucleotide

NM_001161157.2

NCBI GenelD

821589

NCBI Official Full Name

Alpha amylase family protein

NCBI Official Symbol

EMB2729

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

Tel: 1-631-637-0420

E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

1,4-alpha-glucan-branching enzyme 3, chloroplastic/amyloplastic (SBE3), Recombinant Protein



Cat RP01823

NCBI Official Synonym Symbols

BE1; BRANCHING ENZYME 1; EMBRYO DEFECTIVE 2729

NCBI Protein Information

Alpha amylase family protein

NCBI Summary

Encodes BE1, a putative glycoside hydrolase. Involved in organogenesis and somatic embryogenesis by regulating carbohydrate metabolism. Mutation in BE1 has pleotrophic effect on the whole plant development.

UniProt Gene Name

SBE3

UniProt Synonym Gene Names

BE1; EMB2729; AtSBE III; AtBE1

UniProt Protein Name

1,4-alpha-glucan-branching enzyme 3, chloroplastic/amyloplastic

UniProt Synonym Protein Names

Branching enzyme 1; AtBE1; Protein EMBRYO DEFECTIVE 2729; Starch-branching enzyme 3

UniProt Primary Accession #

D2WL32

UniProt Secondary Accession #

Q8GWK4; Q9LTP8; F4JEP1

UniProt Related Accession #

D2WL32

UniProt Comments

Catalyzes the formation of the alpha-1,6-glucosidic linkages in starch by scission of a 1,4-alpha-linked oligosaccharide from growing alpha-1,4-glucan chains and the subsequent attachment of the oligosaccharide to the alpha-1,6 position. Essential during embryogenesis.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 E-mail: info@cd-biosci.com
Tel: 1-631-637-0420 https://www.cd-biosciences.com/plant-protein/