

Seco-amyrin synthase (PEN6), Recombinant Protein

Cat *RP01015*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Seco-amyrin synthase (PEN6) , partial

Product Gene Name

PEN6 recombinant protein

Product Synonym Gene Name

PEN6

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

88,447 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

Seco-amyrin synthase

NCBI Accession

NP_001322480.1

NCBI GI

1063696815

NCBI GenBank Nucleotide

NM_001334828.1

NCBI GeneID

844186

NCBI Official Full Name

Terpenoid cyclases family protein

NCBI Official Symbol

AT1G78500

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Seco-amyrin synthase (PEN6), Recombinant Protein

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PEN6; PENTACYCLIC TRITERPENE SYNTHASE 6; T30F21.16; T30F21_16

NCBI Protein Information

Terpenoid cyclases family protein

NCBI Summary

Encodes a protein with pentacyclic triterpene synthase activity. In addition to the compounds lupeol, alpha-amyrin and bauerenol, this enzyme was also shown to produce two *seco*-triterpenes: alpha- and beta-*seco*-amyirin.

UniProt Gene Name

PEN6

UniProt Synonym Gene Names

AtPEN6

UniProt Protein Name

Seco-amyrin synthase

UniProt Synonym Protein Names

Alpha-*seco*-amyirin synthase; Beta-*seco*-amyirin synthase; Pentacyclic triterpene synthase 6; AtPEN6

UniProt Primary Accession

Q9SYN1

UniProt Related Accession

Q9SYN1

UniProt Comments

Multifunctional enzyme that converts oxidosqualene to lupeol, bauerenol, alpha-amyrin, taraxasterol, psi-taraxasterol, multiflorenol, alpha-*seco*-amyirin and beta-*seco*-amyirin.

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