Cyclotide cter-E, Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP17981*

Size *0.05 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.2 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (E-Coli)/ 0.2 mg (Yeast)/ 0.1 mg (Baculovirus)/ 0.05 mg (Mammalian-Cell)/ 0.5 mg (Yeast)/ 1 mg (E-Coli)/ 0.5 mg (Baculovirus)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (B*

Species
Clitoria ternatea (Butterfly pea)

Full Product Name
Recombinant Clitoria ternatea Cyclotide cter-E

Product Synonym Names
Recombinant Cyclotide cter-E; Cyclotide cter-E

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

Sequence
GIPCAESCVW IPCTVTALLG CSCKDKVCYL D

Sequence Positions
1-31aa; Cytoplasmic domain

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
3,292 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
Cyclotide

NCBI Accession
P86845.1

NCBI GI
325530019

NCBI Official Full Name
Cyclotide cter-E

UniProt Protein Name
Cyclotide cter-E

UniProt Entry Name
CYCE_CLITE

UniProt Primary Accession

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P86845

UniProt Comments

Function: Probably participates in a plant defense mechanism

By similarity. UniProtKB P56871

Domain: The presence of a 'disulfide through disulfide knot' structurally defines this protein as a knottin

By similarity. UniProtKB P56871

Post-translational modification: Contains 3 disulfide bonds.This is a cyclic peptide.

Sequence similarities: Belongs to the cyclotide family. Bracelet subfamily.

Caution: This peptide is cyclic. The start position was chosen by similarity to OAK1 (kalata B1) for which the DNA sequence is known.

Mass spectrometry: Molecular mass is 3265.79 Da from positions 1 - 31. Determined by ESI.

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