

Recombinant *Bacillus thuringiensis* Cry1A.105 Protein



Cat. No. Cry1A.105-09B

Lot. No. (See product label)

Product Name

Recombinant *Bacillus thuringiensis* Cry1A.105 Protein

Product Overview

Cry1A.105 is an engineered chimeric protein composed of domains I and II from Cry1Ab or Cry1Ac, domain III from Cry1F, and a C-terminal domain from Cry1Ac, and has insecticidal activity against a variety of pests. The Cry1A.105 protein is activated by the intestinal juice of the target pest to obtain an activated toxin fragment, which binds to the midgut epithelial cells of the pest to form holes, leading to intestinal paralysis and eventually death due to sepsis.

Form

Liquid

Molecular Mass

136.8 kDa

Purity

90%

Synonyms

Cry1A.105

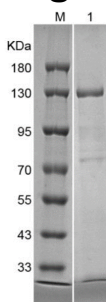
Source

Escherichia coli

Species

Bacillus thuringiensis

Figure



AA Sequence

MDNNPNINECIPYNCLSNPEVEVLGGERIETGYTPIDISLSLTQFLLSEFVPGAGFVLGLVDIIWGIFGPSQWDAFLV
QIEQLINQRIEEFARNQAISRLEGLSNLYQIYAESFREWEADPTNPALREEMRIQFNDMNSALTTAIPFAVQNYQV
PLLSVYVQAANLHLSVLRDVSFVGQRWGFDAATINSRYNDLTRLIGNYTDHAVRWYNTGLERVWGPDSRDWIRY
NQFRRELTTLVLDIVSLFPNYDSRTYPIRTVSQLTREIYTNPVLENFDGSFRGSAQQIEGSIRSPHLM DILNSITIYTD
AHRGEYYWSGHQIMASPVGFSGPEFTFPLYGTMGNAAPQQRIVAQLGQGVYRTLSSTLYRRPFNIGINNQQLSVL
DGTEFAYGTSSNLPSAVYRKSGTVDSLDEIPPQNNNVPPRQGFSHRLSHVSMFRSGFSNSSSVSIIRAPMFSWIHR
SAEFNNIIASDSITQIPLVKAHTLQSGTTVVRGPGFTGGDILRRTSGGPFAYTIVNINGQLPQRYRARIRYASTTNLRI
YVTVAGERIFAGQFNKMTDGDPLTFQSFSYATINTAFTFPMSQSSFTVGADTFSSGNEVYIDRFELIPVTATLEAE
YNLERAQKAVNALFTSTNQLGLKTNVTDYHIDQVSNLVTYLSDEFCLDEKRELSEKVKHAKRLSDERNLLQDSNFK
DINRQPERGWGGSTGITIQGGDDVFKENYVTLSGTFDECYPTYLYQKIDESKLKAFTRYQLRGYIEDSQDLEIYSIR

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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YNAKHETVNVPGTGSLWPLSAQSPIGKCGEPNRCAPHLEWNPDLDCSCRDGEKCAHHSHHFSLDIDVGCTDLNE
DLGVWVIFKIKTQDGHARLGNLEFLEEKPLVGEALARVKRAEKKWRDKREKLEWETNIVYKEAKESVDALFVNSQ
YDQLQADTNIAMIIHAADKRVHSIREAYLPELSVIPGVNAEIFEELEGRIFTAFSLYDARNVIKNGDFNGLSCWNVK
GHVDVEEQNNQRSVLVVPEWEAEVSQEVRCVCPGRGYILRVTAYKEGYGEGCVTIHEIENNTDELKFSNCVEEEIY
PNNTVTCNDYTVNQEEYGGAYTSRNRGYNEAPSPADYASVYEEKSYTDGRRENPCFNRGYRDTPLPVGYY
TKELEYFPETDKVWIEIGETEGTFIVDSVELLLMEE

Amino Acids

1177 aa

Buffer Composition

PBS

Official Symbol

Cry1A.105

Storage

Ship at 4°C. Store at -20°C. Avoid freeze-thaw cycles.

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