

Recombinant *Bacillus thuringiensis* Cry1Ia Protein



Cat. No. *Cry1Ia-10B*

Lot. No. (See product label)

Product Name

Recombinant *Bacillus thuringiensis* Cry1Ia Protein

Product Overview

Cry1Ia is a unique insecticidal protein from *Bacillus thuringiensis* because it has biochemical properties similar to Cry and VIP proteins. Cry1Ia has conserved domains of other Cry proteins, but is not produced in paraspore crystals. The Cry1Ia 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

81.3 kDa

Purity

85%

Synonyms

Cry1Ia

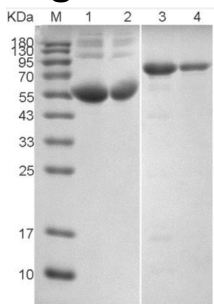
Source

Escherichia coli

Species

Bacillus thuringiensis

Figure



AA Sequence

MKLKNQDKHQSFSSNAKVDKISTDSLKNETDIELQNINHEDCLKMSEYENVEPFVSASTIQTGIGIAGKILGTLGVPF
AGQVASLYSFILGELWPKGKNQWEIFMEHVEEIIINQKISTYARNKALTDLKGLGDALAVYHDSLESWVGNRNNT
RSVVKSQYIALELMFVQKLPSFAVSGEEVPLLPPIYAQAANLHLLLRDASIFGKEWGLSSSEISTFYNRQVERAGDY
SYHCVKWYSTGLNNLRGTNAESWVRYNQFRRDMLMVLDLVALFPSYDTQMYPKTTAQLTREVTDAIGTVHP
HPSFTSTTWYNNNAPSFSIAEAAVVRNPHELLDFLEQVTIYSLLSRWSNTQYMMMWGGHKLEFRTIGGTNLNISTQG
STNTSINPVTLPTSRDVYRTESLAGLNLFLTQPVNGVPRVDFHWKFVTHPIASDNFYYPGYAGIGTQLQDSENEL
PPEATGQPNYESYSHRLSHIGLISASHVKALVYSWTHRSADRTNTIEPNSITQIPLVKAFNLSSGAAVVRGPGFTGG
DILRRTNTGTFGDIRVNINPPFAQRYRVIRIYASTTDLQFHTSINGKAINQGNFSATMNRGEDLDYKTFRTVGFTTP
FSFLDVQSTFTIGAWNFSSGNEVYIDRIEFVPVEVTYEAEDFEKAQEKVTALFTSTNPRGLKTDVKDYHIDQVSNL
VESLSDEFYLDEKRELFEIVKYAKQLHIERNM

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Amino Acids

719 aa

Buffer Composition

PBS

Official Symbol

Cry1Ia

Storage

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

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