

Recombinant Bacillus Thuringiensis pesticidal crystal protein Cry7Aa, His-tagged

Cat. No. Cry7Aa-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bacillus Thuringiensis pesticidal crystal protein Cry7Aa with N-terminal His6 fusion tag was expressed in E. coli.
Species	Bacillus Thuringiensis
Source	E.coli
ProteinLength	1158
Description	Promotes colloid osmotic lysis by binding to the midgut epithelial cells of Coleoptera. This protein is not toxic in its natural form. It is highly toxic to Colorado potato beetle larvae after an in vitro solubilization and trypsin activation step
Form	Buffered aqueous solution
Molecular Mass	131.5 kDa
AA Sequence	MGSSHHHHHSSGLVPRGSHMNLNNLDGYEDSNRTLNNSLNYPTQKALSPSLKNNM NYQDFLSITEREQPEALASGNTAINTVVSVTGATLSALGVPGASFITNFYKLAGLLWP ENGKIWDEFMTEVEALIDQKIEEYVRNKAIAELDGLGSALDKYQKALADWLKGQDDP EAILSVATEFRIIDSLFEFSMPFSKVTGYEIPLLTVYAQAANLHLALLRDSTLYGDKWG FTQNNIEENYNRQKKRISEYSDHCTKWYNSGLSRLNGSTYEQWINYNRFRREMILM ALDLVAVFPFHDPRRYSMETSTQLTREVTDPVSLNISNPDIGPSFSQMENTAIRTPH LVDYLDELYIYTSKYKAFSHEIQPDLFYWSAHKVSFKKSEQSNLYTTGIYGKTSGYISS

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GAYSFHGNDIYRTLAAPSVVVYPYTQNYGVEQVEFYGVKGHVHYRGDNKYDLTYDS
IDQLPPDGEPIHEKYTHRLCHATAIFKSTPDYDNATIPISWTHRSAEYNNRIYPNKITK
IPAVKMYKLDDPSTVVKGPGFTGGDLVKGSTGYIGDIKATVNSPLSQKYRVRVRYA
TNVSGQFNVIYINDKITLQTKFQNTVETIGEGKDLTYGSFGYIEYSTTIQFPDEHPKITL
HLSDLNNSFFYVDSIEFIPVDVNYAEKEKLEKAQKAVNTLFTTEGRNALQKDVTDYKV
DQVSILVDCISGDLYPNEKRELQNLVKYAKRLSYSRNLLDPTFDSINSSEENGWYG
SNGIVIGNGDFVFKGNLIFSGTNDTQYPTYLYQKIDESKLKEYTRYKLKGFIESSQDL
EAYVIRYDAKHRTLVDSDNLLPDILPENTCGEPNRCAAQQYLDENPSPECSSMQDGI
LSDSHSFSLNIDTGSINHNENLGIWVLFKISTLEGYAKFGNLEVIEDGPVIGEALARVK
RQETKWRNKLAQLTTETQAIYTRAKQALDNLFANAQDShLKRDTVFAEIAAARKIVQ
SIREAYMSWLSVVPGVNHPIFTELSGRVQRAFQLYDVRNVVRNGRFLNGLSDWIVT
SDVKVQEENGNNVLVLNNWDAQVLQNVKLYQDRGYILHVTARKIGIGEGYITITDEE
GHTDQLRFTACEEIDASNAFISGYITKELEFFPDTEKVHIEIGETEGIFLVESIELFLMEE
LC

Purity > 90% by SDS-PAGE

Applications Antigen for antibody production
ELISA

Storage Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 4.88 mg/ml

Storage Buffer Solution in 20 mM Tris-HCl, pH 8.0, 200 mM NaCl, 2% Sodium deoxycholate

GENE INFORMATION

Gene Name *cry7Aa*

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Official Symbol	cry7Aa
Synonyms	129 kDa crystal protein; Crystalline entomocidal protoxin; Insecticidal delta-endotoxin CryVIIA(a).
Gene ID	66581788
Protein Refseq	142761
UniProt ID	Q03749
SDS-PAGE	
WB	