

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	MGSSHHHHHHSSGLVPRGSHMNLNNLDGYEDSNRTLNNSLNYPTQKALSPSLKNNM NYQDFLSITEREQPEALASGNTAINTVVSVTGATLSALGVPGASFITNFYKLAGLLWP ENGKIWDEFMTEVEALIDQKIEEYVRNKAIAELDGLGSALDKYQKALADWLKGQDDP EAILSVATEFRIIDSLFEFSMPFSFKVTGYEIPLLTVYAQAANLHLALLRDSTLYGDKWG FTQNNIEENYNRQKKRISEYSDHCTKWYNSGLSRLNGSTYEQWINYNRFRREMILM ALDLVAVFPFHDPRRYSMETSTQLTREVTDPVSLNISNPDIGPSFSQMENTAIRTPH LVDYLDELYIYTSKYKAFSHEIQPDLFYWSAHKVSFKKSEQSNLYTTGIYGKTSGYISS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GAYSFHGNDIYRTLAAPSVVVYPYTQNYGVEQVEFYGVKGHVHYRGDNKYDLTYDS
 IDQLPPDGEPIHEKYTHRLCHATAIFKSTPDYDNATIPISWTHRSAEYNNRIYPNKITK
 IPAVKMYKLDDPSTVVKGPGFTGGDLVKGSTGYIGDIKATVNSPLSQKYRVRVRYA
 TNVSGQFNVIYINDKITLQTKFQNTVETIGEGKDLTYGSFGYIEYSTTIQFPDEHPKITL
 HLSDLNNSFFYVDSIEFIPVDVNYAEKEKLEKAQKAVNTLFTTEGRNALQKDVTDYKV
 DQVSILVDCISGDLYPNEKRELQNLVKYAKRLSYSRNLLDPTFDSINSSEENGWYG
 SNGIVIGNGDFVFKGNLIFSGTNDTQYPTYLYQKIDESKLKEYTRYKLKGFISSQDL
 EAYVIRYDAKHRTLVDSDNLLPDILPENTCGEPNRCAAQQYLDENPSPECSSMQDGI
 LSDSHSFSLNIDTGSINHNENLGIWVLFKISTLEGYAKFGNLEVIEDGPVIGEALARVK
 RQETKWRNKLAQLTTETQAIYTRAKQALDNLFANAQDSHLKRDVTFAEIAAARKIVQ
 SIREAYMSWLSVVPGVNHPITELSGRVQRAFQLYDVRNVVRNGRFLNGLSDWIVT
 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	