

Pesticidal crystal protein cry3Aa Recombinant Protein | cry3Aa recombinant protein

Recombinant Pesticidal crystal protein cry3Aa

CATALOG #
AAA114771

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

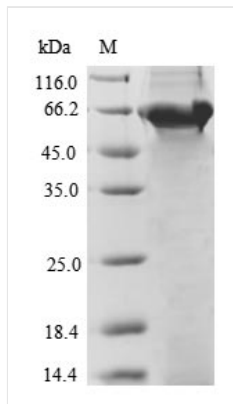
PRODUCT SYNONYMS

Pesticidal crystal protein cry3Aa; Recombinant Pesticidal crystal protein cry3Aa; 73 kDa crystal protein; Crystalline entomocidal protoxinInsecticidal delta-endotoxin CryIIIA(a); cry3Aa recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	58-644aa, Full Length of Mature Protein
Sequence	DSSTTKDVIQ KGISVVGDLL GVVGFPPFGGA LVSFYTNFLN TIWPSDPWK AFMEQVEALM DQKIADYAKN KALAEQLQLQ NNVEDYVSAL SSWQKNPVSS RNPHSQGRIR ELFSQAESHF RNSMPSFAIS GYEVFLTTY AQAANTHLFL LKDAQIYGEE WGYEKEDIAE FYKRQLKLTQ EYTDHCVKWY NVGLDKLRGS SYESWVNFNR YRREMTLTVL DLIALFPLYD VRLYPKEVKT ELTRDVLTPD IVGVNNLRGY GTTFSNIENY IRKPHLFDYL HRIQFHTRFQ PGYYGNDSFN YWSGNYVSTR PSIGSNDIIT SPFYGNKSSE PVQNLEFNGE KVVRAVANTN LAVWPSAVYS GVTKEFSQY NDQTDEASTQ TYDSKRNVGA VSWDSIDQLP PETTDEPLEK GYSHQLNYVM CFLMQSGRGT IPVLTWTHKS VDFFNMIDSK KITQLPLVKA YKLQSGASVV AGPRFTGGDI IQCTENGSA TIIYTPDVSQ SQYRARIHY ASTSQITFTL SLDGAPFNQY YFDKTINKGD TLTYNSFNLA SFSTPFELSG NNLQIGVTGL SAGDKVYIDK IEFIPVN
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for cry3Aa recombinant protein

Promotes colloidsmotic lysis by binding to the midgut epithelial cells of Coleoptera.

References	Nucleotide sequence of a gene encoding an insecticidal protein of <i>Bacillus thuringiensis</i> var. <i>tenebrionis</i> toxic against Coleoptera. Hoeft H., Seurinck J., Houtven A.V., Vaeck M. <i>Nucleic Acids Res.</i> 15:7183-7183(1987) Molecular cloning and characterization of the insecticidal crystal protein gene of <i>Bacillus thuringiensis</i> var. <i>tenebrionis</i>. Sekar V., Thompson D.V., Maroney M.J., Bookland R.G., Adang M.J. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 84:7036-7040(1987) Characterization of the coleopteran-specific protein gene of <i>Bacillus thuringiensis</i> var. <i>tenebrionis</i>. McPherson S.A., Perlak F.J., Fuchs R.L., Marrone P.G., Lavrik P.B., Fischhoff D.A. <i>Biotechnology (N.Y.)</i> 6:61-66(1988) Elucidation of the mechanism of CryIIIa overproduction in a mutagenized strain of <i>Bacillus thuringiensis</i> var. <i>tenebrionis</i>. Adams L.F., Mathewes S., O'Hara P., Petersen A., Gurtler H. <i>Mol. Microbiol.</i> 14:381-389(1994) Crystal structure of insecticidal delta-endotoxin from <i>Bacillus thuringiensis</i> at 2.5-Å resolution. Li J., Carroll J., Ellar D.J. <i>Nature</i> 353:815-821(1991)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	61221657
UniProt Accession #	P0A379; P07130; P21255
Molecular Weight	68.5 kDa
NCBI Official Full Name	Pesticidal crystal protein Cry3Aa
UniProt Protein Name	Pesticidal crystal protein Cry3Aa
UniProt Gene Name	cry3Aa
UniProt Synonym Gene Names	bt13; cry3A; cryC; cryIIla; cryIIIA(a)
UniProt Entry Name	CR3AA_BACTT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.