



Recombinant *Bacillus thuringiensis* subsp. *tenebrionis* cry3Aa Protein Product Manual

1. Product Basic Information

Product No.: REP06555

Protein Name: cry3Aa

Aliases: cry3Aa; bt13; cry3A; cryC; cryIIa; cryIIA(a)Pesticida

UniProt ID: P0A379

UniProt Link: <https://www.uniprot.org/uniprotkb/P0A379/entry>

Species Source: *Bacillus thuringiensis* subsp. *tenebrionis*

Expression System: *E.coli*

Protein Length: Full Length of Mature Protein (58-644aa)

Molecular Weight: 70.5kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (58-644aa)

DSSTTKDVIQKGISVVGDLLGVVGFPFGGALVSFYTNFLNTIWPSSEDPWKAFMEQV
EALMDQKIADYAKNKALAEQLQNNVEDYVSALSSWQKNPVSSRNPHSQGRIRE
LFSQAESHFRNSMPSFAISGYEVLFLTTYAQAANTHLFLLKDAQIYGEEWGYEKEDI
AEFYKRQLKLTQEYTDHCVKWYNVGLDKLRGSSYESWVNFNRYRREMTLTVLDLIA
LFPLYDVRLYPKEVKTELTRDVLTDPIVGVNNLRGYGTTFSNIENYIRKPHLFDYLRHRI
QFHTRFQPGYYGNDSFNYWSGNYVSTRPSIGSNDIITSPFYGNKSSEPQVQNFNG
EKVYRAVANTNLAVWPSAVYSGVTKVEFSQYNDQTDEASTQTYDSKRNVGAVSW
DSIDQLPPETTTDEPLEKGYSHQLNYVMCFLMQGSRGTIPVLTWTHKSVDFFNMIDS
KKITQLPLVKAYKLQSGASVAGPRFTGGDIQCTENGSAATYVTPDVSYSQKYRA
RIHYASTSQITFTLSLDGAPFNQYYFDKTINKGDTLTYNFSNLASFSTPFELSGNNLQI
GVTGLSAGDKVYIDKIEFIPVN

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements)

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Bacillus thuringiensis* subsp. *tenebrionis* cry3Aa full length of mature protein (58-644aa) expressed in *E.coli*. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. cry3Aa, also known as cry3Aa or bt13 or cry3A, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.