



Recombinant *Bacillus thuringiensis* subsp. *kurstaki* cry1Ac Protein Product Manual

1. Product Basic Information

Product No.: REP06553

Protein Name: CryIA(C)Pesticidal Crystal Protein Cry1Ac (cry1Ac)

Aliases: cry1Ac; cry1A(c); cry218; cryIA(c)Pesticidal crystal protein Cry1Ac

UniProt ID: P05068

UniProt Link: <https://www.uniprot.org/uniprotkb/P05068/entry>

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

Expression System: *E.coli*

Protein Length: Partial (972-1178aa)

Molecular Weight: 50.8kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (972-1178aa)

LYDARNVIKNGDFNNGLSWNVKGVHDVVEEQNNQRSVLVVPEWEAEVSQEVKVC
PGRGYILRVYAYKEGYGEGCVTIHEIENNTDELKFSNCVEEEIYPNNTVTCNDYTVN
QEEYGGAYTSRNRGYNEAPSPADYASVYEEKSYTDGRRENPCFNRGYRDYTP
LPVGYVTKELEYFPETDKVWIEIGETEGTFIVDSVELLLMEE

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 when placing orders).

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. *kurstaki* cry1Ac partial protein (972-1178aa) expressed in *E.coli*. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. cry1Ac, also known as cry1Ac or cry1A(c) or cry218, 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.