

Cry1Ac Protein, Bacillus thuringiensis subsp., Recombinant (GST)

General Information

Synonyms:	cryIA(c);cry218;Insecticidal delta-endotoxin CryIA(c);Crystalline entomocidal protoxin;cry1Ac;Pesticidal crystal protein Cry1Ac;cry1A(c);133 kDa crystal protein
Protein Construction:	972-1178 aa
Species:	Bacillus thuringiensis subsp. kurstaki
Expression Host:	E. coli
Accession:	P05068
Molecular Weight:	50.8 kDa (predicted)
AA Sequence:	LYDARNVIKNGDFNNGLSWNVKGVHDVVEEQNNQRSVLVVPWEAEVVSQEVVRVCPGRGYILRVTAYKEGYG EGCVTIHEIENNTDELKFSNCVEEEIYPNNTVTCDNDYTVNQEEYGGAYTSRNRGYNEAPSVPADYASVYEEKS YTDGRRENPCFENRGYRDYTPLVGVYVTKLEYFPETDKVWIEIGETEGTFIVDSVELLMEE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Promotes colloid osmotic lysis by binding to the midgut epithelial cells of many lepidopteran larvae.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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