

Recombinant *Bacillus thuringiensis* cry2Ab Protein, His-tagged

Cat. No. cry2Ab-01B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Bacillus thuringiensis</i> subsp. <i>Kurstaki</i> Pesticidal crystal protein cry2Ab (1-633aa) with N-terminal 6xHis tag was expressed in <i>E. coli</i> .
Species	<i>Bacillus thuringiensis</i>
Source	<i>E. coli</i>
ProteinLength	1-633 a.a.
Description	Promotes colloid osmotic lysis by binding to the midgut epithelial cells of lepidopteran (<i>Manduca sexta</i>) larvae.
Molecular Mass	74.7 kDa
AA Sequence	MNSVLNSGRTTICDAYNVAAHDPFSFQHKSLDTVQKEWTEWKKNNHSLYLDPIVGT VASFLLKKVGSVLVGKRILSELRNLIFFSGSTNLMQDILRETEKFLNQRLNTDTLARVNA ELTGLQANVEEFNRQVDNFLNPNRNAVPLSITSSVNTMQQLFLNRLPQFQMGGYQL LLLPLFAQAANLHLSFIRDVILNADEWGISAATLRTYRDYLNKYTRDYSNYCINTYQSA FKGLNTRLHDMLEFRTYMFLNVFEYVSIWSLFFKYQSLLVSSGANLYASGSGPQQQTQ SFTSQDWPFYLSLFFQVNSNYVLNGFSGARLSNTFPNIVGLPGSTTTTHALLAARVNYS GGISSGDIGASPFNQNFNCSTFLPPLLTPFVRSWLD SGSDREGVATVTNWQTESFE TTLGLRSGAFTARGNSNYFPDYFIRNISGVPLVVRNEDLRRPLHYNEIRNIASPSGTP GGARAYMVSVHNRKNNIHAVHENGSMIHLAPNDYTGTISPIHATQVNNQTRTFISE KFGNQGD SLRFEQNNTTARYTLRGNGNSYNLYLRVSSIGNSTIRVTINGRVYTATNV

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	NTTTNNDGVNDNGARFSDINIGNVVASSNSDVPLDINVTLNSGTQFDLMNIMLVPTNISPLY
Purity	>90% as determined by SDS-PAGE.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade, -80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade, -80 centigrade. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage Buffer	Tris-based buffer 50% glycerol
GENE INFORMATION	
Official Symbol	cry2Ab
Synonyms	cry2Ab; Pesticidal crystal protein Cry2Ab; 71 kDa crystal protein; Crystalline entomocidal protoxin; Insecticidal delta-endotoxin CryIIA(b); cryB2
UniProt ID	P21254