

# Recombinant bacillus Intein protein

Catalog Number: ATGP1259

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

3-518aa

### UniProt No.

N/A

### NCBI Accession No.

CAG28939

### Alternative Names

Intein-CBD

## PRODUCT SPECIFICATION

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### Molecular Weight

59.5 kDa (533aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Intein-CBD, also known as Intein, is a segment of a protein that is able to excise itself and rejoin the remaining portions with a peptide bond. Most reported inteins also contain an endonuclease domain that plays a role in intein propagation. In fact, many genes have unrelated intein-coding segments inserted at different positions. Since then, inteins have been found in all three domains of life (eukaryotes, bacteria, and archaea) and in viruses. Recombinant Bacillus circulans Intein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

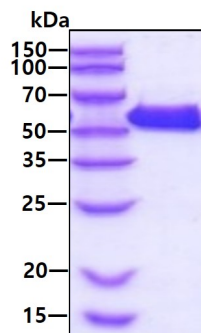
MKIEEGKLV I GSLEGCFAGK TNVLMADGSI ECIE NIEVGN KVMGKDGRPR EVIKLPRGRE TMYSVVQKSQ HRAHKSDSSR  
EPELLKFTC NATHELVVRT PRSVRRLSRT IKGVEYFEVI TFEMGQKKAP DGRIVELVKE VSKSYPISEG PERANELVES  
YRKASNKAYF EWTIEARDLS LLGSHVRKAT YQTYAPILYE NDHFFDYMQK SKFHLTIEGP KVLAYLLGLW IGDGLSDRAT  
FSVDSRDTSL MERVTEYAEK LNLCAEYKDR KEPQVAKTVN LYSKVVRGAS TNPVSAWQV NTAYTAGQLV TYNGKTYKCL  
QPHTSLAGWE PSNVPALWQL QGGHGGIRNN LNTENPLWDA IVGLGFLKDG VKNIPSFLST DNIGTRETFL AGLIDSDGYV  
TDEHGKATI KTIHTSVRDG LVSLARSLGL VVSVNAEPAK VDMNVTKHKI SYAIYMSGGD VLLNVLSKCA GSKKFRPAPA  
AAFARECRGF YFELQELKED DYYGITLSDD SDHQFLLGSQ VVVQNLEHHH HHH

## General References

Goqarten JP (2006) BMC Evol Biol. 13:6-94.  
Anraku Y., et al. (2005) IuBMB Kife. 57:563-74.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain