

Recombinant bacillus Intein protein

Catalog Number: ATGP3997

PRODUCT INFORMATION

Expression system

E.coli

Domain

3-518aa

UniProt No.

N/A

NCBI Accession No.

CAG28939.1

Alternative Names

Intein-CBD

PRODUCT SPECIFICATION

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

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

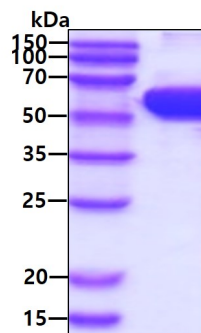
MKIEEGKLV I GSLEGCFAGK TNVLMADGSI ECIE NIEVGN KVMGKDGRPR EVIKLPRGRE TMYSVVQKSQ HRAHKSDSSR
EPELLKFTC NATHELVVRT PRSVRRLSRT IKGVEYFEVI TFEMGQKKAP DGRIVELVKE VSKSYPISEG PERANELVES
YRKASNKAYF EWTIEARDLS LLGSHVRKAT YQTYAPILYE NDHFFDYMQK SKFHLTIEGP KVLAYLLGLW IGDGLSDRAT
FSVDSRDTSL MERVTEYAEK LNLCAEYKDR KEPQVAKTVN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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain