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AR50084PU-S Intein (3-518, His-tag) - Purified

Alternate names: Intein-CBD

Quantity: 0.1 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: 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.

NCBI: CAG28939

Source: E. coli

Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Description: Recombinant *Bacillus circulans* Intein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.
N-terminal Sequence Analysist: Met-Gly-Pro-Thr-Gly
AA Sequence:

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MKIEEGKLVI GSLEGCFAKG TNVLMADGSI ECIENIEVGN KVMGKDGRPR EVIKLPRGRE
TMYSVVQKSQ HRAHKSDSSR EVPELLKFTC 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 TDEHGIKATI KTIHTSVRDG
LVSLARSLGL VVSVNAEPAK VDMNVTKHKI SYAIYMSGGD VLLNVLSKCA GSKKFRPAPA
AAFARECRGF YFELQELKED DYYGITLSDD SDHQFLLGSQ VVVQNLEHHH HHH
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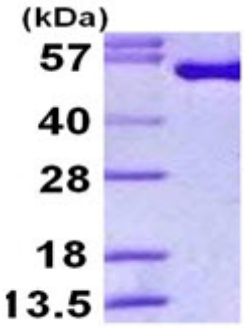
Molecular weight: 59.4 kDa (533aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Goqarten JP (2006) BMC Evol Biol. 13:6-94.
2. Anraku Y, Mizutani R, Satow Y. Protein splicing: its discovery and structural insight into novel chemical mechanisms. IUBMB Life. 2005 Aug;57(8):563-74. PubMed PMID: 16118114.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Pictures:



15% SDS-PAGE (3ug)

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