

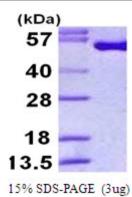
OriGene Technologies, Inc.

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AR50084PU-N	Intein (3-518, His-tag) - Purified
Alternate names:	Intein-CBD
Quantity:	0.5 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:	<u>CAG28939</u>
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: MKIEEGKLVI GSLEGCFAKG TNVLMADGSI ECIENIEVGN KVMGKDGRPR EVIKLPRGRE TMYSVVQKSQ HRAHKSDSSR EVPELLKFTC NATHELVVRT PRSVRLSRT 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 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.

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