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# Intein Bacillus Circulans

**Catalog #:**PRPS-965

For research use only.

**Description:**Intein Bacillus Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 533 amino acids (3-518) and having a molecular mass of 59.4 kDa.Intein is fused to a 16 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

**Synonyms:**Intein-CBD

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MKIEEGKLVI GSLEGCFAKG TNVLMADGSI ECIENIEVGN KVMGKDGRPR EVIKLPRGRE TMYSVVQKSQ HRAHKSDSSR EVPELLKFTC NATHELVVRT PRSVRRLSRT IKGVEYFEVI TFEMGQKKAP DGRIVELVKE VSKSYPISEG PERANELVES YRKASNKAYF EWTIEARDLS LLGSHVRKAT YQTYAPILYE NDHFFDYMQK SKFHLTIEGP KVLAYLLGLW I

**Purity:**Greater than 95% as determined by SDS-PAGE.

**Formulation:**
The Intein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.

**Stability:**
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**
Intein is a section of a protein which can remove itself and return the remaining segment with a peptide bond. In addition, Inteins hold an endonuclease domain which takes part in Intein proliferation. Actually, various genes have unrelated intein-coding segments inserted at altered positions and they were found in all three domains of life (eukaryotes, bacteria, and archaea) and in viruses.

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