

## BBetacellulin Active Protein | bBTC active protein

Recombinant Bovine Betacellulin

CATALOG #  
**AAA38191**

HOST  
**E Coli**

### PRODUCT SYNONYMS

BBetacellulin; Recombinant Bovine Betacellulin; BTC Bovine; Betacellulin Bovine Recombinant; bBTC active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification     | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                   |
| Form/Format             | The Betacellulin Bovine Recombinant was lyophilized after extensive dialysis against 50mM acetic acid. Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                          |
| Sequence                | Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeAsp-Gly -Asn-Ser-T hr                                                                                                                                                                                                                                                                                     |
| Sequence Length         | 178                                                                                                                                                                                                                                                                                                                                                                                       |
| Solubility              | It is recommended to reconstitute the lyophilized BTC Bovine in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                          |
| Protein Content         | Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 0.59 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of BTC as a Reference Standard. |
| Biological Activity     | The ED50, calculated by the dose-dependent proliferation of murine BALBC 3T3 cells (measured by 3H-thymidine uptake) is < 10.0 ng/ml, corresponding to a Specific Activity 100,000 units/mg.                                                                                                                                                                                              |
| Preparation and Storage | Lyophilized Betacellulin Bovine Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BTC Bovine should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.   |

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for bBTC active protein | <p><b>Description:</b> Betacellulin Bovine Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 80 amino acids and having a molecular mass of 9003 Dalton. Betacellulin Bovine Recombinant is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Btc is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. The effects of betacellulin are probably mediated by the egf receptor and other related receptors.</p> |
| Product Categories/Family for bBTC active protein   | Cytokines and Growth Factors; Cytokines; Betacellulin                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### NCBI AND UNIPROT INFORMATION

|                     |          |
|---------------------|----------|
| NCBI GI #           | 13626137 |
| NCBI GeneID         | 280737   |
| UniProt Accession # | Q9TTC5   |

|                                  |                 |
|----------------------------------|-----------------|
| NCBI Official Full Name          | Probetacellulin |
| NCBI Official Synonym Full Names | betacellulin    |
| NCBI Official Symbol             | BTC             |
| NCBI Protein Information         | probetacellulin |
| UniProt Protein Name             | Probetacellulin |
| UniProt Gene Name                | <b>BTC</b>      |
| UniProt Synonym Gene Names       | BTC             |
| UniProt Entry Name               | BTC_BOVIN       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-bbtc-active-protein/bbetacellulin/38191>