

## Betacellulin, Murine Recombinant

<b>CATALOG #:</b>	7119-5 7119-20	5 µg 20 µg
<b>ALTERNATE NAMES:</b>	BTC	
<b>SOURCE:</b>	E.coli	
<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	9 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.	
<b>STORAGE CONDITIONS:</b>	Store at -20 °C. After reconstitution, aliquot and store at -20 °C to -80 °C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20 °C to -80 °C.

**DESCRIPTION:**

Betacellulin is an EGF-related polypeptide growth factor that signals through the EGF receptor. It is produced in several tissues, including the pancreas, small intestine, and in certain tumor cells. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. Betacellulin is initially synthesized as a glycosylated 32.0 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce the mature sequence. Recombinant murine Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein precursor.

**BIOLOGICAL ACTIVITY:**

Determined by its ability to stimulate the proliferation of mouse Balb/3T3 cells.

The expected ED<sub>50</sub> is ≤ 0.01 ng/ml, corresponding to a specific activity of ≥ 1 x 10<sup>8</sup> units/mg.

**AMINO ACID SEQUENCE:**

DGNTTRTPET NGLSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR  
CRFVVDEQTP SCICEKGYFG ARCERVDLFY

**RELATED PRODUCTS:**

- BTC, human recombinant (**Cat. No. 4876-20, -1000**)
- EGF, human recombinant (**Cat. No. 4022-100, -500, -1000, -5000**)
- EGF, murine recombinant (**Cat. No. 4023--500, -1000, -5000**)
- EGF, rat recombinant (**Cat. No. 4024-20, -100, -1000**)
- EGF Antibody (**Cat. No. 5022-100**)
- EGF Antibody (**Cat. No. 5023R-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**