

## Active Recombinant Bovine Betacellulin

Cat. No. BTC-320B Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Bovine Betacellulin was produced in <i>E.Coli</i> .
<b>Species</b>	Bovine
<b>Source</b>	E.coli
<b>Description</b>	Bovine Betacellulin (BTC), a member of the EGF family, is an 80 amino acid heparin-binding protein. Like other members of the EGF family, it is synthesized as a transmembrane precursor. The soluble cytokine, containing one EGF structural motif, is released by proteolytic cleavage. BTC can bind to the EGF receptor (ErbB-1) which then dimerizes with another member of the ErbB receptor family to signal through the tyrosine kinase pathway. BTC is a potent mitogen for Balb/c 3T3 fibroblasts, retinal pigment epithelial cells and vascular smooth muscle cells and is the only member of the EGF family to stimulate insulin secretion in pancreatic b cells.
<b>Purity</b>	By N-terminal sequencing: >95% bovine betacellulin, comprising an equal mixture of [Gly1]BTC and Des(1-4)BTC.
<b>Molecular Weight</b>	Theoretical: 8995 daltons. By Mass Spectrometry the product is 50% [Gly1]BTC (9052 daltons) and 50% Des(1-4)BTC (8709 daltons).
<b>N-terminal Sequence Analysis</b>	5 residues >95% bovine betacellulin, comprising an equal mixture of [Gly1]BTC and Des(1-4)BTC.
<b>Activity</b>	Cell growth bioassay in Balb/c 3T3 fibroblasts: ED <sub>50</sub> <10 ng/ml.

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<b>Endotoxin</b>	<0.1 EU/g.
<b>State And Appearance</b>	Lyophilized white powder. Dried from 0.05 M acetic acid, 0.05% (v/v) trifluoroacetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).
<b>Storage</b>	At least 2 years at 2 – 4°C (lyophilized).

## GENE INFORMATION

<b>Gene Name</b>	BTC betacellulin [ <i>Bos taurus</i> ]
<b>Synonyms</b>	Betacellulin; BTC
<b>Gene ID</b>	280737
<b>mRNA Refseq</b>	NM_173896
<b>Protein Refseq</b>	NP_776321
<b>UniProt ID</b>	Q9TTC5
<b>Chromosome Location</b>	6
<b>Pathway</b>	ErbB signaling pathway
<b>Function</b>	Growth factor activity

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