

**Btc**

## Recombinant Mouse Betacellulin

<b>Catalog No.</b>	CS495A CS495B CS495C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Alternate Names:</b>	Bcn, probetacellulin		
<b>Description:</b>	<p>Betacellulin (BTC) encoded by the BTC gene located on the chromosome 4, is a member of the EGF family of cytokines that also includes EGF, TGF-<math>\alpha</math>, Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum. Mouse BTC is expressed as a 178-amino acid precursor and the amino acid sequence of the mature form is 80% identical with human BTC. Both human and mouse BTC exhibit significant overall similarity with other members of the EGF family.</p> <p>Recombinant Mouse Betacellulin is a heparin binding protein containing 80 amino acids residues, which comprises the mature EGF homologous portion of the Betacellulin protein.</p>		
<b>Gene ID:</b>	12223		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	9.0 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.		
<b>Purity:</b>	>96% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by a cell proliferation assay using mouse BALB/c 3T3 cells is less than 0.01 ng/ml.		
<b>Specific Activity:</b>	>1.0 × 10 <sup>8</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	DGNTRTRTPET NGSICGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-8°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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