

Recombinant Bovine BTC

Catalog No.	ARU020	Quantity:	20 µg
Alternate Names:	Betacellulin, Bcn		
Description:	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.		
Gene ID:	280737		
Protein Accession No:	NP_776321		
Source:	<i>E. coli</i>		
Molecular Weight:	8.995 kDa		
Formulation:	Lyophilized from 0.05 M acetic acid + 0.05% (v/v) trifluoroacetic acid and stored under dry nitrogen at a slight vacuum (~25 kPa)		
Purity:	> 95% bovine betacellulin, comprising an equal mixture of [Gly1]BTC and Des(1-4)BTC		
Endotoxin Level:	< 0.1 ng/µg of BTC		
Biological Activity:	Determined by cell growth bioassay in Balb/c 3T3 fibroblasts. The ED ₅₀ is < 10 ng/ml.		
Reconstitution:	See Protocol #1500		
Storage & Stability:	Lyophilized protein is stable for 2 years at 2-4°C. Avoid repeated freeze-thaw cycles.		

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