

## Active Recombinant Human BTC Protein

Cat. No. BTC-008H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The mature recombinant human BTC protein containing 80aa (D32-Y111) without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	32-111 a.a.
<b>Description</b>	This gene encodes a member of the epidermal growth factor (EGF) family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the secreted growth factor. A secreted form and a membrane-anchored form of this protein bind to multiple different EGF receptors. This protein promotes pancreatic cell proliferation and insulin secretion, as well as retinal vascular permeability. Mutations in this gene may be associated with type 2 diabetes in human patients.
<b>Bio-activity</b>	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is $\leq 0.05$ ng/mL, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.
<b>Molecular Mass</b>	9 kDa
<b>Product-Related Proteins</b>	32-111

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<b>Endotoxin</b>	< 0.1 EU/μg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	At -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	PBS

## GENE INFORMATION

<b>Gene Name</b>	BTC betacellulin [ Homo sapiens (human) ]
<b>Official Symbol</b>	BTC
<b>Synonyms</b>	BTC; betacellulin; probetacellulin
<b>Gene ID</b>	685
<b>mRNA Refseq</b>	NM_001729
<b>Protein Refseq</b>	NP_001720
<b>MIM</b>	600345
<b>UniProt ID</b>	P35070

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