

## Recombinant Human Betacellulin, His-tagged

Cat. No. BTC-869H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BTC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 11.3 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	32-111aa
<b>Description</b>	BTC (Betacellulin) is a member of the EGF family of growth factors and contains 1 EGF-like domain. It is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor. The effects of BTC are probably mediated by the EGF receptor and other related receptors.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 200mM NaCl.
<b>Molecular Mass</b>	11.3 kDa (101aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHF SRCP KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y
<b>Purity</b>	>90% by SDS - PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	BTC betacellulin [ Homo sapiens ]
<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
<b>Chromosome Location</b>	4q13-q21
<b>Pathway</b>	ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; ErbB4 signaling events, organism-specific biosystem; GRB2 events in ERBB2 signaling, organism-specific

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biosystem; Nuclear signaling by ERBB4, organism-specific biosystem;

**Function**

epidermal growth factor receptor binding; growth factor activity;

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