Recombinant Human Betacellulin, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	32-111aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 200mM NaCl.
Molecular Mass	11.3 kDa (101aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
AA Sequence	MGSSHHHHHH SSGLVPRGSH MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHFSRCP KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y
Purity	>90% by SDS - PAGE

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Applications	SDS-PAGE
Storage	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.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	BTC betacellulin [Homo sapiens]
Official Symbol	BTC
Synonyms	BTC; betacellulin; probetacellulin;
Gene ID	685
mRNA Refseq	NM_001729
Protein Refseq	NP_001720
MIM	600345
UniProt ID	P35070
Chromosome Location	4q13-q21
Pathway	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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