

Active Recombinant Human BTC Protein

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

SPECIFICATION

Product Overview	The mature recombinant human BTC protein containing 80aa (D32-Y111) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	32-111 a.a.
Description	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.
Bio-activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is ≤ 0.05 ng/mL, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.
Molecular Mass	9 kDa
Product-Related Proteins	32-111

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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

GENE INFORMATION

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

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