

Active Recombinant Human BTC Protein, His-tagged

Cat. No. BTC-09H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Betacellulin (32-111 aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	86
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.
Form	Liquid
Bio-activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range ≤ 0.5 ng/mL.
Molecular Mass	9.8 kDa

 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

AA Sequence	DGNSTRSPETNGLLCGDPEENCAATTTQSKRKGHF SRC PKQYKHYCIKGR CRFVV AEQTPSCVCDEGYIGARCERVDLFY
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

GENE INFORMATION

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

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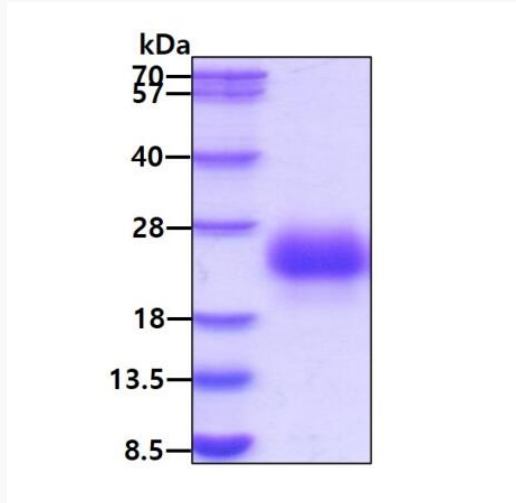
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UniProt ID

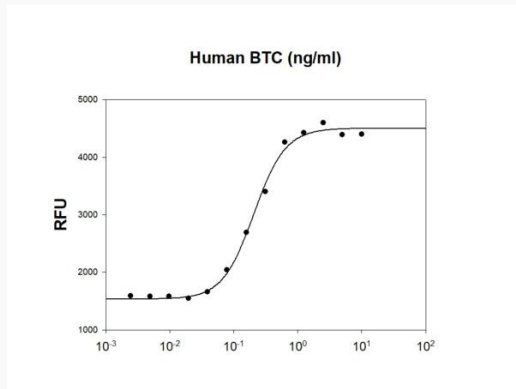
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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity



Human BTC stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells. The ED50 range \leq 0.5 ng/mL.

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