

Betacellulin/BTC Active Protein | BTC active protein

Recombinant human Betacellulin/BTC Protein

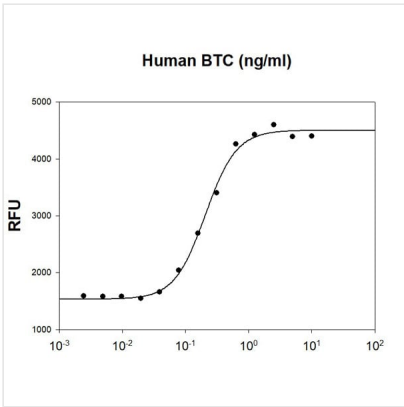
CATALOG # AAA48393	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

Betacellulin/BTC; Recombinant human Betacellulin/BTC Protein; Betacellulin; Probetacellulin; BTC; Betacellulin isoform 1; BTC active protein

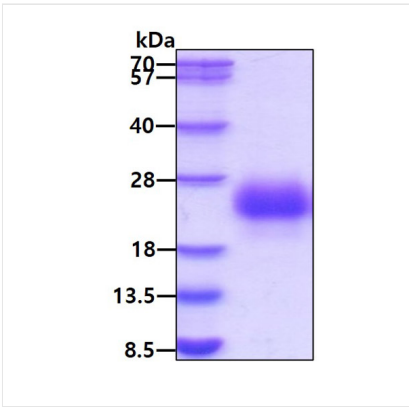
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol.
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	32-111aa
Sequence	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Applicable Applications for BTC active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Asp32
Bioactivity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range <= 0.5ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain



Bioactivity
Human BTC stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells. The ED50 range

ADDITIONAL INFORMATION

Related Product Information for BTC active protein	BTC, also known as Betacellulin, is a member of epidermal growth factor receptor family and functions as a ligand for the epidermal growth factor receptor (EGFR). As the role a EGFR, betacellulin is manifested by different form of muscles and tissues, it also has a great effect of nitrogen that is used for retinal pigment epithelial cells and vascular smooth muscle cells. While many studies attest a role for betacellulin in the differentiation of pancreatic beta-cells, the last decade witnessed the association of betacellulin with many additional biological processes, ranging from reproduction to the control of neural stem cells. As a typical EGFR ligand, betacellulin is expressed by a variety of cell types and tissues, and the soluble growth factor is proteolytically cleaved from a larger membrane-anchored precursor. It stimulates the proliferation of retinal pigment epithelial and vascular smooth muscle cells but did not stimulate the growth of several other cell types, such as endothelial cells and fetal lung fibroblasts. Recombinant human Betacellulin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for BTC active protein	Signal Transduction; Proteins
References	Saito T., et al, (2004) Endocrinology. 145(9):4232-4243. Kim HS., et al, (2003) FASEB Journal. 17(2):318-320.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502461
NCBI GeneID	685
NCBI Accession #	NP_001720
NCBI GenBank Nucleotide #	NM_001729.3
UniProt Accession #	P35070; Q96F48
Molecular Weight	11.3kD (101aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
NCBI Official Full Name	probetacellulin isoform 1 preproprotein
NCBI Official Synonym Full Names	betacellulin
NCBI Official Symbol	BTC
NCBI Protein Information	probetacellulin
UniProt Protein Name	Probetacellulin
UniProt Gene Name	BTC
UniProt Synonym Gene Names	BTC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/betacellulin-btc/48393>