

## Product datasheet for **TP723036**

### Betacellulin (BTC) (NM\_001729) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human betacellulin (BTC).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYSIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Tag:	Tag Free
Predicted MW:	9 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	ED50 was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is less than or equal to 0.05 ng/ml, corresponding to a specific activity of > 2 x 10 <sup>7</sup> units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001720</a>
Locus ID:	685
UniProt ID:	<a href="#">P35070</a> , <a href="#">A0A0S2Z437</a>
RefSeq Size:	1323
Cytogenetics:	4q13.3
RefSeq ORF:	534



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**Summary:**

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. [provided by RefSeq, Nov 2015]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane

**Protein Pathways:**

ErbB signaling pathway

**Product images:**