

Recombinant Mouse Betacellulin (rm BTC)

Synonyms: Probetacellulin.

Introduction: BTC is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. The effects of betacellulin are probably mediated by the egf receptor and other related receptors.

Description: BTC Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 80 amino acids and having a molecular mass of 9.0kDa. The BTC is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder..

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 1×PBS, pH 7.4.

Solubility: It is recommended to reconstitute the lyophilized BTC Mouse Recombinant in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized BTC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BTC should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Amino Acid Sequence: DGNTTRTPET NGLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY

Biological Activity: The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of mouse Balb/3T3 cells is < 0.01 ng/ml, corresponding to a Specific Activity of > 1.0×10⁸ IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12344130
<i>medium</i>	20 µg	Cat.N°	12344134

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