



Betacellulin, mouse recombinant (rmBTC)

Catalog No: 97418
Lot No: XXXXX
Source: *E. coli*
Synonyms: Betacellulin, Probetacellulin

Background

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 9.0 kDa. BTC is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized BTC in sterile 18 MΩ-cm H₂O not less than 100 µg/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 NGLSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY

Activity

Fully biologically active when compared to standard. 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.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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