Betacellulin, Bovine Recombinant

CATALOG NO: P1588-10 10 µg

ALTERNATE NAMES: BTC

MOL. WT. 9003 Dalton

SOURCE: *E. coli*

PURITY: >95%

FORM: Lyophilized

FORMULATION: Lyophilized after extensive dialysis against 50mM acetic acid.

RECONSTITUTION: It is recommended to reconstitute the lyophilized BTC Bovine in sterile 18MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

SPECIFIC ACTIVITY: The ED_{50}, calculated by the dose-dependent proliferation of murine BALB\C 3T3 cells (measured by 3H-thymidine uptake) is < 10.0 ng/ml, corresponding to a Specific Activity 100,000 units/mg.

STORAGE CONDITIONS: Store at -20°C. Once reconstituted store at 4°C for short-term (2-7 days) and for future use below -20°C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid freeze-thaw cycles.

DESCRIPTION: 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. BTC is a growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. It is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.

AMINO ACID SEQUENCE: The protein has 80 amino acids. The sequence of the first five N-terminal amino acids was determined and was found to be Asp-Gly-Asn-Ser-Thr.

RELATED PRODUCTS:

- FGF-basic 147, Bovine Recombinant (P1591)
- Fibroblast Growth Factor-21 Bovine Recombinant (P1592)
- FGF-2/FGF-basic, Bovine Pituitary (P1590)
- Betacellulin Bovine Recombinant (P1588)
- FGF-acidic, Bovine Brain (P1589)

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