

Recombinant Human BTC

CATALOG #:	4876-20	20 µg
	4876-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	> 97 % by SDS-PAGE and RP-HPLC analyses	
FORM:	Lyophilized after extensive dialysis against 20 mM phosphate buffer, pH 7.4.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human BTC should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA) and store as working aliquots at -20°C.

DESCRIPTION:

Human Betacellulin (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. Human Recombinant BTC produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 80 amino acids and having a molecular mass of 9 kDa. BTC was purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

DGNSTRSPETNGLLCGDPEENCAATTTQSKRKGHSRCPKQYKHYCIKGRCRFVVA
EQTPSCVCDEGYIGARCERVDLFY

BIOLOGICAL ACTIVITY:

The ED₅₀, calculated by the dose-dependent proliferation of murine BALB/C 3T3 cells (measured by ³H-thymidine uptake) is < 0.05 ng/ml; corresponding to a Specific Activity of > 2.0 × 10⁷ IU/mg.

FOR RESEARCH USE ONLY! Not to be used in humans.

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