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Technical Data Sheet Recombinant Human Betacellulin (rHu BTC)

Recombinant Human Betacellulin

Betacellulin (BTC) is a member of the EGF family of cytokines that also includes EGF, TGF-a, Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. At the amino acid sequence level, human mature BTC protein exhibits 80% identity with mouse BTC protein. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum.

Catalog Number:	RC218-23
Source:	Escherichia coli.
Molecular Weight:	Recombinant human Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein.
Quantity:	5ug/20ug/1mg
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10^7 units/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
AA Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Endotoxin:	Less than $1EU/\mu g$ of rHuBetacellulin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the
Storage:	contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions. This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles .
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further
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