

BTC

Recombinant Human Betacellulin

Catalog No.	CSI20126A CSI20126B CSI20126C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	BTC		
Description:	Recombinant Human Betacellulin (BTC) is a member of the EGF family of cytokines that also includes EGF, TGF- α , 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.		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	685		
Source:	<i>E. coli</i>		
Molecular Weight:	9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein.		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution of PBS, pH 7.4.		
Purity:	>98% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1EU/µg of rHuBTC as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. ED ₅₀ as determined by the dose-dependent stimulation of the proliferation assay using mouse Balb/3T3 cells is ≤ 0.05 ng/ml.		
Specific Activity:	≥ 2 x 10 ⁷ units/mg		
Amino Acid Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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