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## Product Data Sheet

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Product Name: BTC Human  
Cat. No.: GP20126  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Asp-Gly-Asn-Ser-Thr.		
Solubility	It is recommended to reconstitute the lyophilized BTC Human in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Betacellulin Human Recombinant was lyophilized after extensive dialysis against 20mM phosphate buffer pH-7.4.		

### Introduction

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.

### Biological Activity

The ED<sub>50</sub>, calculated by the dose-dependant proliferation of murine BALB\C 3T3 cells (measured by 3H-thymidine uptake) is < 0.05 ng/ml. corresponding to a Specific Activity of >20,000,000IU/mg.

### Stability

Lyophilized Betacellulin Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution BTC Human 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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

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