9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

BTC Bovine

Betacellulin Bovine Recombinant
CYK0103

Product Overview

Name	BTC Bovine
Description	
Betacellulin Bovine Recombinant	
Accession (Primary)	Q9TTC5
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Betacellulin Bovine Recombinant was lyophilized after extensive dialysis against 50mM acetic acid.	
Stability	
Lyophilized Betacellulin Bovine Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BTC Bovine 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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
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.	
Biological 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.	
Solubility	
It is recommended to reconstitute the lyophilized BTC Bovine in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.	

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Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.59 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of BTC as a Reference Standard.

Precautions

BTC Bovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9TTC5)