

Overview

Synonyms	BTC
Description	<p>Betacellulin (BTC) is a member of the EGF family of growth factors that also includes EGF, TGF-α, Amphiregulin, HB-EGF, Epiregulin, Tomoregulin, Heregulin and Neuregulins. Mature human BTC protein exhibits 80% amino acid similarity 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. It is synthesized primarily as a transmembrane precursor, which is then processed to a mature molecule by proteolytic events. BTC signals through the EGF receptor.</p> <p>Recombinant Human Betacellulin (BTC) produced in <i>E.coli</i> is a single non-glycosylated polypeptide chain containing 81 amino acids. A fully biologically active molecule, rhBTC has a molecular mass of 15 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P35070
Species	Human
Source	<i>E. coli</i>
Biological Activity	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is < 0.01 ng/ml, corresponding to a specific activity of >1 x 10 ⁸ units/mg.
Sequence	MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHFSRCP KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y

Properties

Measured Molecular Weight	15 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant human Betacellulin (BTC) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human Betacellulin (BTC) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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