

Betacellulin (BTC), Human

Cat.no. PK0260

Product size: 10ug 50ug 1mg

Source: E. coli

Species: Human

Biological Activity: The ED50 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 10⁸ units/mg.

Molecular Weight: 15 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 0.2 EU/µg, 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.

Description: 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 acidsimilarity 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. Recombinant Human Betacellulin (BTC) produced in E.coli is a single non-glycosylated polypeptide chain containing 81 amino acids.

Amino Acid Sequence:

00001 MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHFSRCP

00041 KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF

00081 Y

Synonyms: BTC, Betacellulin

Note: For research use only, not for use in diagnostic procedure.