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# Recombinant human Betacellulin protein

Catalog Number: ATGP1250

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

32-111aa

#### UniProt No.

P35070

#### **NCBI Accession No.**

NP 001720.1

#### **Alternative Names**

Betacellulin, probetacellulin precursor

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

11.3kD (101aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 200mM NaCl

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### **Tag**

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

BTC (Betacellulin) is a member of the EGF family of growth factors and contains 1 EGF-like domain. It is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor. The effects of BTC are probably mediated by the EGF receptor and other related receptors. Recombinant human BTC protein, fused to His-tag at N-terminus, was



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expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

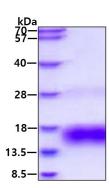
<MGSSHHHHHH SSGLVPRGSH M>DGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHFSRCP KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y

#### **General References**

Gratao AA, et al. (2008) Biol Reprod.78(1):43-52. Genetos DC, et al. (2010) Cell Tissue Res. 340(1):81-9.

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

