

## AR50075PU-S

## Human Betacellulin (32-111, His-tag) - Purified

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| <b>Alternate names:</b>  | BTC, Probetacellulin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Quantity:</b>         | 50 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration:</b>    | 0.25mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Background:</b>       | 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.                                                                                                                                        |
| <b>Uniprot ID:</b>       | <a href="#">P35070</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>NCBI:</b>             | <a href="#">NP_001720</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>GeneID:</b>           | <a href="#">685</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source:</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>           | <b>State:</b> Liquid purified protein<br><b>Purity:</b> >90% by SDS - PAGE<br><b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 200mM NaCl                                                                                                                                                                                                                                                                                                                                |
| <b>Description:</b>      | Recombinant human BTC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.<br><b>AA Sequence:</b><br>MGSSHHHHH SGLVPRGSH MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHFSCRCP<br>KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y<br><b>Molecular weight:</b> 11.3kD (101aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher) 11.3kD (101aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher) |
| <b>Storage:</b>          | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                            |
| <b>General Readings:</b> | Gratao AA, et al. (2008) Biol Reprod.78(1):43-52.Genetos DC, et al. (2010) Cell Tissue Res. 340(1):81-9.                                                                                                                                                                                                                                                                                                                                                                                                       |

Pictures:

