

## HUMAN BTC PROTEIN, HFC TAG

**Cat.#:** 11894

**Product Name:** Human BTC Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** Betacellulin

**Target:** BTC

**UNIPROT ID:** P35070

**Description:** Recombinant Human BTC Protein with C-terminal human Fc tag

**Background:** This gene encodes a member of the epidermal growth factor (EGF) family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the secreted growth factor. A secreted form and a membrane-anchored form of this protein bind to multiple different EGF receptors. This protein promotes pancreatic cell proliferation and insulin secretion, as well as retinal vascular permeability. Mutations in this gene may be associated with type 2 diabetes in human patients. [provided by RefSeq, Nov 2015]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 35.1 kDa after removal of the signal peptide. The apparent molecular mass of BTC-hFc is approximately 35-70 kDa due to glycosylation.

**Molecular Characterization:** BTC(Asp32-Tyr111) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human BTC Protein, hFc Tag on SDS-PAGE under reducing condition.