

Product Data Sheet

Betacellulin/BTC Protein, Mouse (N-His)

Cat. No.: HY-P7329

Synonyms: rMuBetacellulin; BTC

Species: Mouse Source: E. coli

Accession: Q05928 (D32-Y111)

Gene ID: 12223 Molecular Weight: 12-16 kDa

PROPERTIES

AA Sequence	DGNTTRTPET NGSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY				
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED ₅₀ this effect is ≤0.9548 ng/mL, corresponding to a specific activity is ≥1.047×10 ⁶ units/mg.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0 or PBS, pH 7.4.				
Endotoxin Level	<1 EU/μg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH $_2$ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.				
Shipping	Room temperature in continental US; may vary elsewhere.				

DESCRIPTION

Background

Betacellulin (BTC), a member of the epidermal growth factor (EGF) family, induces differentiation of pancreatic β -cells and promotes regeneration of β-cells in experimental diabetes. BTC stimulates DNA synthesis in fibroblasts and vascular smooth muscle cells. BTC plays a role in regulating growth and/or differentiation of endocrine precursor cells of the fetal pancreas. BTC is found to convert amylase-secreting pancreatic AR42J cells into insulin-producing cells and to have a mitogenic effect in human undifferentiated pancreatic epithelial cells^[1].

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