

Recombinant Human Betacellulin

Cat. No.:	LT5007P
Synonyms:	rHuBetacellulin; Probetacellulin; BTC
Species:	Human
Source:	E. coli
Accession:	P35070
Gene ID:	685
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	MDGNSTRSPE TNGLLCGDPE ENCAATTTQS KRKGHF SRCP KQYKHYCIKG RCRFVVAEQT PSCVCDEGYI GARCERVDLF Y
Biological Activity	The ED ₅₀ is <0.01 ng/mL as measured by murine Balb/3T3 cells, corresponding to a specific activity of >1.0 × 10 ⁸ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	Reconstitute the lyophilized recombinant Human Betacellulin (rHuBetacellulin) to 100 μg/mL using ddH ₂ O or PBS.
Storage & Stability	Lyophilized recombinant Human Betacellulin (rHuBetacellulin) is stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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 family, is expressed predominantly in the human pancreas and induces the differentiation of a pancreatic acinar cell line (AR42J) into insulin-secreting cells. Betacellulin binds and activates the EGF receptor (EGFR/erbB-1) and erbB-4, and it induces tyrosine phosphorylation of erbB-2, which couples with the EGFR or erbB-4 ^[1] .
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Caution: Product has not been fully validated for medical applications. For research use only.

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