

Betacellulin, Murine Recombinant

CATALOG #:	7119-10	10 µg
	7119-50	50 µg
ALTERNATE NAMES:	BTC	
SOURCE:	E.coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	9 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

Betacellulin is an EGF-related polypeptide growth factor that signals through the EGF receptor. It is produced in several tissues, including the pancreas, small intestine, and in certain tumor cells. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. Betacellulin is initially synthesized as a glycosylated 32.0 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce the mature sequence. Recombinant murine Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein precursor.

BIOLOGICAL ACTIVITY:

Determined by its ability to stimulate the proliferation of mouse Balb/3T3 cells.

The expected ED₅₀ is ≤ 0.01 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁸ units/mg.

AMINO ACID SEQUENCE:

DGNTTRTPET NGS LCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR
CRFVVDEQTP SCICEKGYFG ARCERVDLFY

RELATED PRODUCTS:

- BTC, human recombinant (Cat. No. 4876-20, -1000)
- EGF, human recombinant (Cat. No. 4022-100, -500, -1000, -5000)
- EGF, murine recombinant (Cat. No. 4023--500, -1000, -5000)
- EGF, rat recombinant (Cat. No. 4024-20, -100, -1000)
- EGF Antibody (Cat. No. 5022-100)
- EGF Antibody (Cat. No. 5023R-100)

FOR RESEARCH USE ONLY! Not to be used in humans.