

**Recombinant Murine Betacellulin**  
**Catalog # PBG10038****Specification**

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**Recombinant Murine Betacellulin - Product Information****Recombinant Murine Betacellulin - Additional Information****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.

**Biological Activity**

Determined by its ability to stimulate the proliferation of M Balb/3T3 cells. The expected  $ED_{50}$  is  $\leq 0.01$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^8$  units/mg.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$  EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Murine Betacellulin is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine Betacellulin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Murine Betacellulin - Images**