

# Mouse Betacellulin / BTC (His & Fc Tag) recombinant protein



Catalog Number: 502744

## General Information

### Gene Name Synonym

Betacellulin

### Protein Construction

A DNA sequence encoding the mouse BTC (NP\_031594.1) extracellular domain (Met 1-Gln 118) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED<sub>50</sub> for this effect is typically 2-10 ng/mL.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Asp 32

### Molecular Mass

The recombinant mouse BTC/Fc is a disulfide-linked homodimer. The reduced monomer consists of 335 amino acids and has a predicted molecular mass of 38 kDa. As a result of glycosylation, the apparent molecular mass of rm BTC/Fc monomer migrates with an apparent molecular mass of 50-55 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

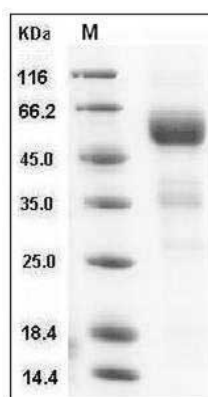
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Mouse BTC / Betacellulin Protein (His & Fc Tag)  
SDS-PAGE