

Human Betacellulin Protein

Cat. No. BTC-HE001

Description

Source	Recombinant Human Betacellulin Protein is expressed from E.coli without tag. It contains Asp32-Gln118.
Accession	P35070
Molecular Weight	The protein has a predicted MW of 9.76 kDa. The protein migrates to 14-18 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

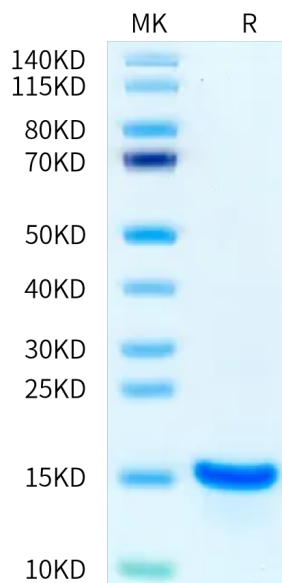
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Betacellulin (BTC) belongs to the epidermal growth factor (EGF) family of peptide ligands that are characterised by a six-cysteine consensus motif that forms three intra-molecular disulfide bonds crucial for binding the ErbB receptor family.

Assay Data

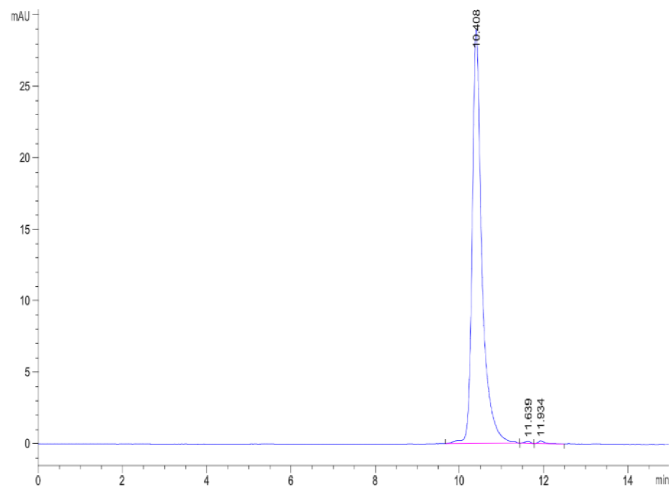
Bis-Tris PAGE



Human Betacellulin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

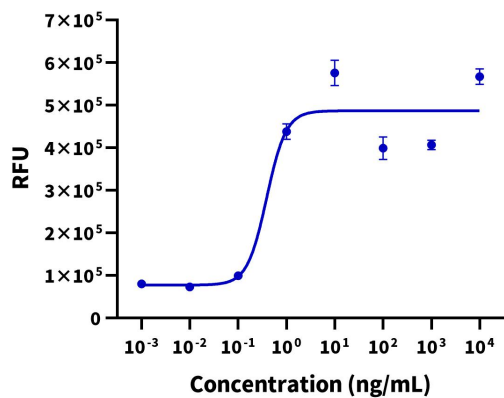
Assay Data



The purity of Human Betacellulin is greater than 95% as determined by SEC-HPLC.

Cell Based Assay

Recombinant Human Betacellulin Bioactivity



Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.10-1.50 ng/ml (QC Test).