

Btc

Recombinant Mouse Betacellulin (His & Fc Tag)

Catalog No.	CRM591A-HisFc CRM591B-HisFc CRM591C-HisFc	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	Probetacellulin, Betacellulin, BTC		
Description:	Betacellulin (BTC) is a member of the epidermal growth factor (EGF) family. These soluble proteins are ligands for one or more of the four receptor tyrosine kinases encoded by the ErbB gene family (ErbB-1/epidermal growth factor receptor (EGFR), neu/ErbB-2/HER2, ErbB-3/HER3 and ErbB-4/HER4). Betacellulin is a 32-kilodalton glycoprotein that appears to be processed from a larger transmembrane precursor by proteolytic cleavage. This protein is a ligand for the EGF receptor. BTC was originally identified as a growth-promoting factor in mouse pancreatic β-cell carcinoma cell line and has since been identified in humans. It plays a role in the growth and development of the neonate and/or mammary gland function. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.		
UniProt ID:	Q05928		
Accession Number:	NP_031594.1		
Protein Construction:	A DNA sequence encoding the mouse BTC extracellular domain (Met 1-Gln 118) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rmBTC/Fc is a disulfide-linked homodimer. The reduced monomer consists of 335 aa with a predicted MW of 38 kDa and migrates at ~ 50-55 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 90 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 2-10 ng/mL.		
Predicted N-terminal:	Asp 32		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



Cell Sciences®

65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246

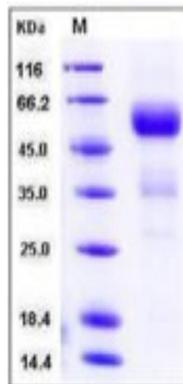
Phone: 978-572-1070

Fax: 978-992-0298

E-mail: info@cellsciences.com

Website: www.cellsciences.com

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