Active Recombinant Human BTC Protein (Asp32-Gln118), GMP Grade, Animal-Free

Cat. No. BTC-02HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Human BTC Protein, Asp32-Gln118, with an N-terminal Met was expressed in E. coli and produced using non-animal reagents in an animal-free laboratory under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Asp32-Gln118
Description	This gene encodes a member of the epidermal growth factor (EGF) family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the secreted growth factor. A secreted form and a membrane-anchored form of this protein bind to multiple different EGF receptors. This protein promotes pancreatic cell proliferation and insulin secretion, as well as retinal vascular permeability. Mutations in this gene may be associated with type 2 diabetes in human patients.
Bio-activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.100-1.50 ng/mL.
Molecular Mass	Predicted Molecular Mass: 9.9 kDa SDS-PAGE: 12-15 kDa, under reducing conditions.

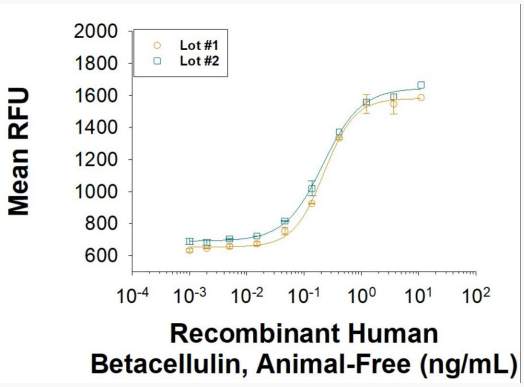
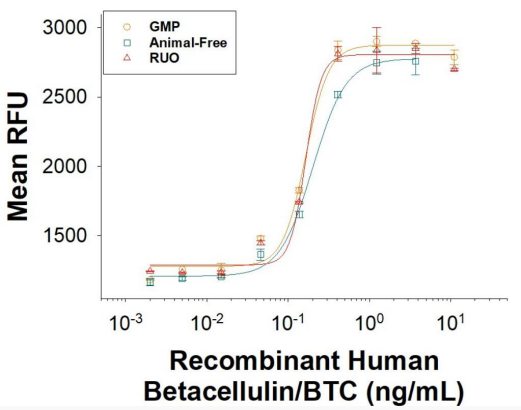
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N-terminal Sequence Analysis	Met-Asp32
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 100-500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

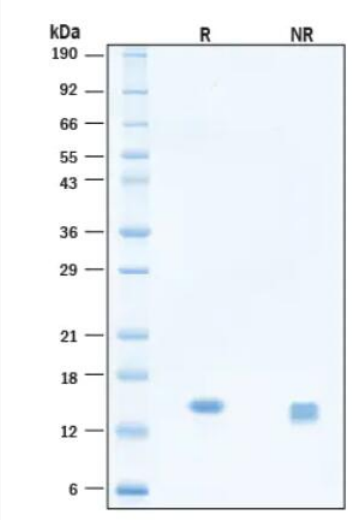
GENE INFORMATION

Gene Name	BTC betacellulin [Homo sapiens]
Official Symbol	BTC
Synonyms	BTC; betacellulin; probetacellulin
Gene ID	685
mRNA Refseq	NM_001729

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Protein Refseq	NP_001720
MIM	600345
UniProt ID	P35070
Bioactivity	
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SDS-PAGE	

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