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Recombinant human betacellulin (Qk123)



Type: Stem cells

Available for purchase: unit size (µg): 25, 50, 100, 500, 1000

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Product Information

Betacellulin is a member of the epidermal growth factor (EGF) family which regulates proliferation and differentiation in various stem cell types. Betacellulin stimulates proliferation and maintains pluripotency in neural and osteogenic stem cells. It can induce pancreatic β-cell differentiation in human embryonic stem cells (ESC) and differentiation of retinal progenitor cells.

Qkine human betacellulin is a highly pure and bioactive 9.89 kDa protein, animal origin-free (AOF), carrier-free, tag-free, and non-glycosylated to ensure its purity with exceptional lot-to-lot consistency.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

BTC, Probetacellulin

Molecular weight

9.89 kDa

Protein Uniprot number

High purity human betacellulin (UniProt: P35070)

Species reactivity

- human

- species similarity:
- mouse - 78%
- rat - 75%
- bovine - 90%
- porcine - 86%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Cellular proliferation, migration and survival
- Stimulation of angiogenesis and vascular network development
- Neurogenesis and neural differentiation
- Differentiation of retinal progenitor cells

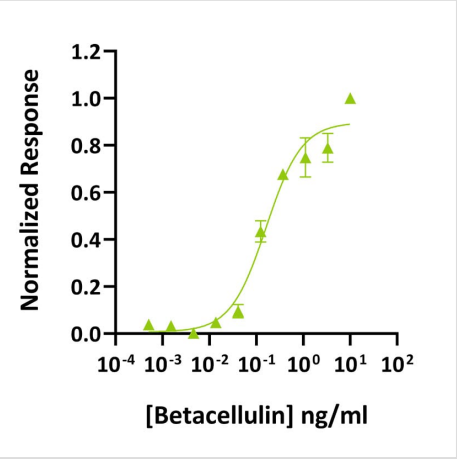
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

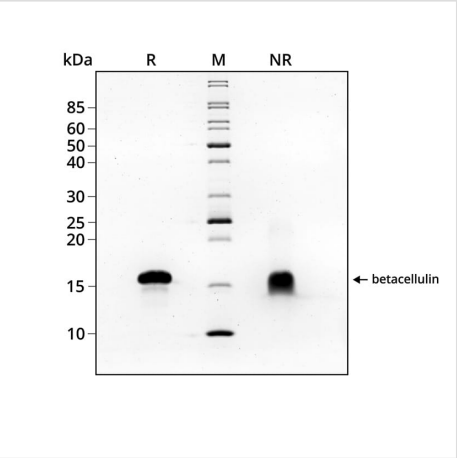
Bioactivity

Recombinant betacellulin activity was determined using a luciferase assay. HEK293T cells were treated in triplicate with a serial dilution of betacellulin for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk123 lot #204720. EC50 = 162.4 pg/ml.



Purity

Recombinant betacellulin migrates as a major band at approximately 15 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein 3 µg was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk123 lot #204740.



Original product page: https://qkine.com/product/recombinant-human-betacellulin-qk123/

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