

Recombinant human activin C protein (Qk026)



Type: Stem cells

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

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Product Information

Activin C is a member of the [transforming growth factor-beta \(TGF-β\) superfamily](#), a group of proteins that play key roles in regulating cell growth, survival and differentiation. Activin C activates SMAD2/3 signaling and is highly expressed in liver, testis and prostate.

Qkine recombinant activin C is the only commercially available [animal origin-free](#) activin C protein. Recombinant activin C is a bioactive 25 kDa homodimer, tag free and carrier free for improved reproducibility.

This protein is also available as GMP compliant [Cell Therapy Grade](#), to enquire email ryan.weber@matriq.com.

Alternative protein names

ActC, Activin beta-C chain, INHBC, Inhibin beta C, Qk26

Molecular weight

25 kDa (dimer)

Protein Uniprot number

High purity human protein (Uniprot: P55103)

Species reactivity

- human

- species similarity:
- mouse - 93%
- rat - 91%
- bovine - 91%
- porcine - 95%
- ovine - 92%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- 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

- Differentiation of embryonic stem cells into gut-like structures, cardiomyocytes and hepatocytes
- Cancer research

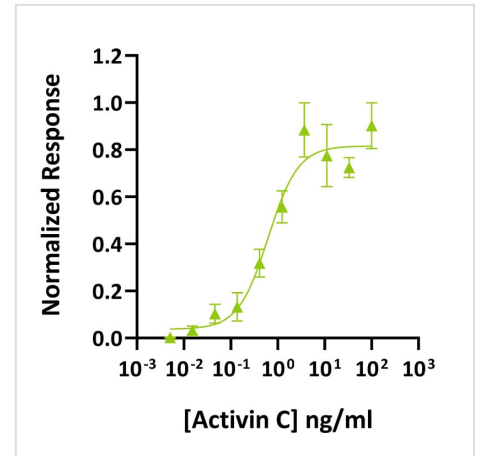
Further quality assays

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

Scientific Information

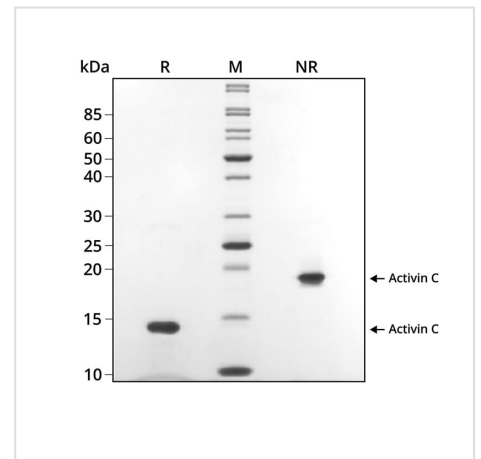
Bioactivity

Recombinant activin C activity was determined using a Smad reporter assay in HEK293 cells co-transfected with the activin C co-receptor ALK7. HEK293 cells were treated in triplicate with a serial dilution of activin C for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk026 lot #204801. EC50 = 0.63 ng/ml (25 pM).



Purity

Recombinant activin C migrates at approximately 14 kDa (monomer) in reduced (R) and approximately 18 kDa (dimer) 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 Qk026 lot #204801.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-activin-c-protein-qk026/>

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