

Recombinant human activin B protein (Qk024)



Type: Stem cells

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

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Product Information

Activin B 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 B has been shown to play a role in metabolism, tissue regeneration and fibrosis. Recombinant activin B has been used to induce pancreatic differentiation and induce wound healing in mesenchymal stem cells (MSCs).

Qkine recombinant activin B is the only commercially available [animal origin-free](#) activin B protein. Recombinant activin B is a bioactive 25.6 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@matriqx.com.

Alternative protein names

ActB, Activin beta-B chain, INHBB, Inhibin beta B, Inhibin beta 2, Inhibin Subunit Beta B, Inhibin Beta B Chain, Activin Beta-B Chain, Inhibin, Beta B (Activin AB Beta Polypeptide), activin AB Beta Polypeptide, Inhibin Beta B Subunit, Inhibin, Beta B, Inhibin, Beta-2, Qk24

Molecular weight

25.6 kDa (dimer)

Protein Uniprot number

High purity human protein (Uniprot: P09529)

Species reactivity

- human
- species similarity:
- mouse - 97%
- rat - 97%
- bovine - 100%
- porcine - 99%

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, TFA

Reconstitution instructions

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

Featured applications

- Drug discovery in metabolism
- Metabolic disease research
- Wound healing and tissue repair
- Mesenchymal stem cell research

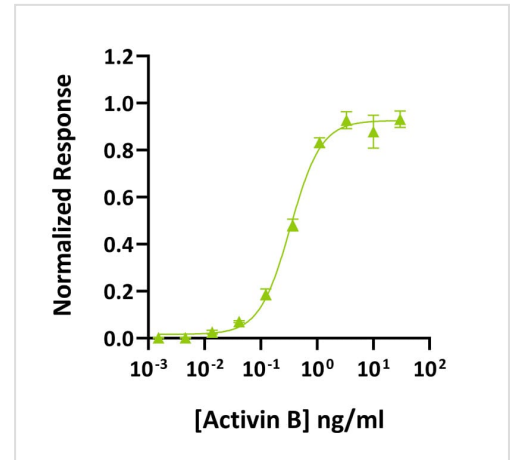
Further quality assays

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

Scientific Information

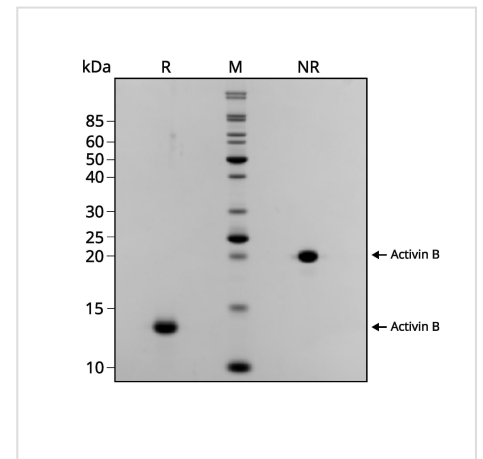
Bioactivity

Recombinant activin B activity was determined using a Smad reporter assay in HEK293 cells co-transfected with the activin B co-receptor ALK7. HEK293 cells were treated in triplicate with a serial dilution of activin B for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk024 lot #204803. EC50 = 0.34 ng/ml (13 pM).



Purity

Recombinant Activin B migrates as a major band at approximately 13 kDa (monomer) in reduced (R) and approximately 20 kDa (dimer) in 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 Qk024 lot #204803.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-activin-b-protein-qk024/>

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