

Recombinant human activin AB protein (Qk127)



Type: Stem cells, New

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

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Product Information

Activins are members of the [transforming growth factor-beta \(TGF-β\) superfamily](#), a group of proteins that play key roles in regulating cell growth, survival and differentiation. In vivo activins exist as homodimers or heterodimers, the activin heterodimer AB is widely expressed and biologically active with similar functions to the activin AA homodimer.

Qkine recombinant activin AB is a bioactive 25.7 kDa heterodimer, [animal origin-free](#), tag free and carrier free for improved reproducibility.

Qkine animal origin-free recombinant human activin AB heterodimer is available to purchase and will be delivered within 6-8 weeks.

Alternative protein names

ActA, Activin beta-A chain, Erythroid differentiation protein (EDP), Follicle-Stimulating Hormone (FSH) releasing protein (FRP), INHBA, Inhibin beta A, Inhibin beta 1, 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

Molecular weight

25.7 kDa (dimer)

Protein Uniprot number

High purity human Activin AB protein (UniProt: P08476 and P09529)

Species reactivity

- human
- species reactivity:
- mouse - 97.8%
- rat - 97.8%
- bovine - 100%
- porcine - 99.6%

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
- Wound healing and fibrosis

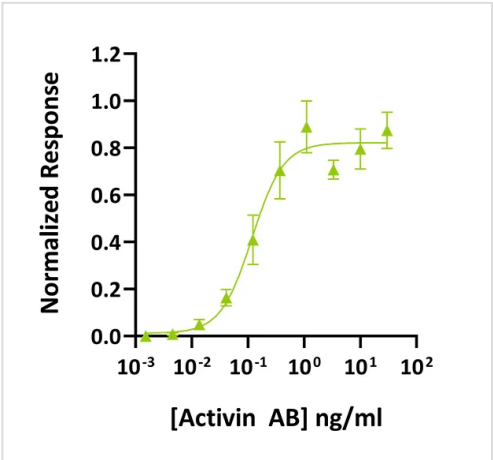
Further quality assays

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

Scientific Information

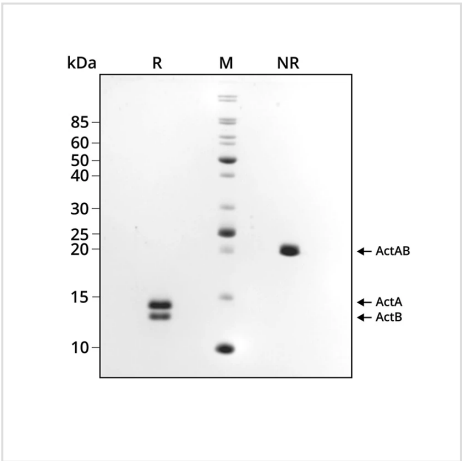
Bioactivity

Recombinant activin AB 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 AB for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk127 lot #204819. EC50 = 0.12 ng/ml (4.7 pM).



Purity

Recombinant activin AB migrates as two bands at approximately 13 and 14 kDa (monomers) in the reduced (R) condition, and as one band at approximately 20 kDa (dimer) in the non-reduced (NR) condition. 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 Qk127 lot #204819.



Original product page: <https://qkine.com/product/recombinant-human-activin-a-b-protein-qk127/>

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