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Recombinant bovine/porcine activin A protein (Qk108-FG)



Type: Food grade proteins

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

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Product Information

Activin A is a TGF-β family growth factor regulating embryonic development, cell proliferation, differentiation, and immune responses. Food grade activin A is frequently used to maintain pluripotency in induced pluripotent and embryonic stem cell cultures for cultivated meat and fat.

High quality food grade recombinant bovine/porcine activin A protein is a high-purity mature bioactive dimer of 26 kDa. It is animal origin-free, carrier protein-free, and tag-free to ensure its purity with exceptional lot-to-lot consistency.

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

Molecular weight

26 kDa (dimer)

Protein Uniprot number

Bioactive mature domain of recombinant bovine/porcine activin A protein (Uniprot: P07995)

Species reactivity

- bovine
- porcine

Product Information

- High quality food grade recombinant protein
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

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

Featured applications

- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development
- Induced pluripotent stem cell culture and maintenance

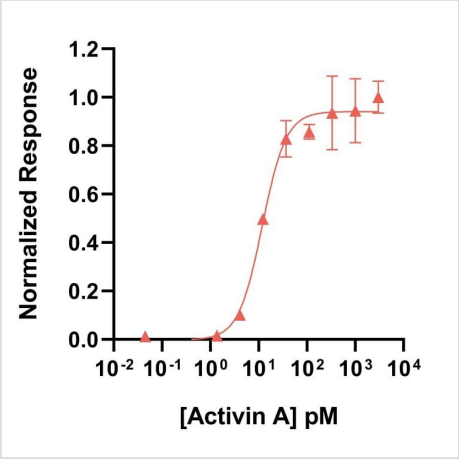
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

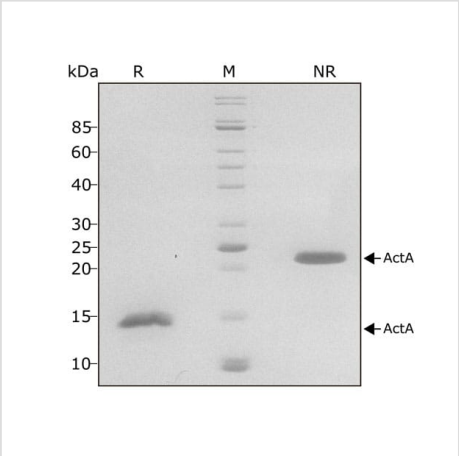
Bioactivity

Activin A activity is determined using the activin-responsive firefly luciferase reporter assay in stably transfected HEK293T cells. Cells are treated in triplicate with a serial dilution of activin A. Firefly luciferase activity is measured and normalized. EC50 = 11.9 pM (309.4 pg/ml). Data from Qk001 lot #104276.



Purity

Activin A migrates as a single band at 24 kDa in non-reducing (NR) and 13 kDa as a single monomeric species upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (7 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk001 lot #011.



Original product page: https://qkine.com/product/high-quality-food-grade-recombinant-bovine-porcine-activin-a-protein-qk108-fg/

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