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Recombinant bovine/porcine activin A PLUS™ protein (Qk109-FG)



Type: Food grade proteins

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

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Product Information

Bovine/porcine high quality food grade recombinant activin A PLUS™ protein is an optimized biologically active truncation of the mature domain of human activin A protein. The EC50 and activity in stem cell culture of activin A PLUS™ is equivalent to the full mature domain activin A.

High purity 24 kDa dimer comprising truncated mature domain of activin A protein, animal origin-free (AOF) and carrier-protein free (CF). Recombinant activin A PLUS™ is designed to be manufactured at scale for cost-effective, large-scale stem cell culture applications for cultured meat and fat.

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

24 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

- Suitable for bulk and scale-up stem cell culture applications
- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development
- Induced pluripotent and embryonic stem cell differentiation and maintenance

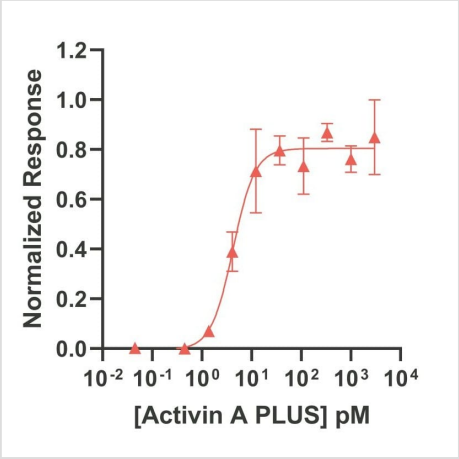
Further quality assays

- 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

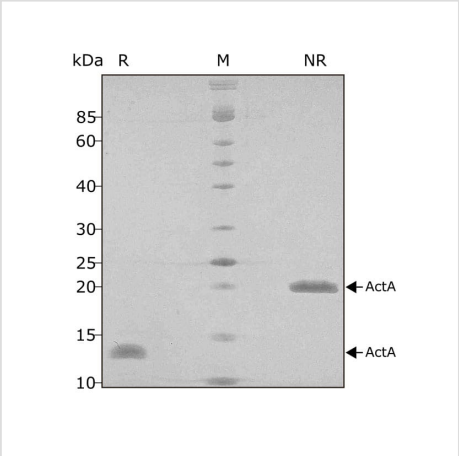
Bioactivity

Activin A PLUS™ activity was determined using an activin-responsive firefly luciferase reporter in HEK293T cells in triplicate) with a serial dilution of activin A for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 0.103 ng/ml (4.24 pM). EC50 is within the expected range of 6 ± 2 pM. Data from Qk005 lot #104344.



Purity

Activin A PLUS™ 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 Qk005 lot #010.



Original product page: https://qkine.com/product/recombinant-bovine-porcine-activin-a-plus-protein-qk109-fg/

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