orders@qkine.com
support@qkine.com

Recombinant human activin A PLUS™ protein (Qk005)



Type: Stem cells

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

Buy online with secure credit card or purchase order.
View this product and buy online

Product Information

Human 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.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

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, Qk5, Qk05

Molecular weight

24 kDa (dimer)

Protein Uniprot number

High purity optimized mature domain of human activin A (Uniprot: P08476) – particularly suitable for bulk and scale-up stem cell culture applications

Species reactivity

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

Product Information

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

- Large scale stem cell expansion

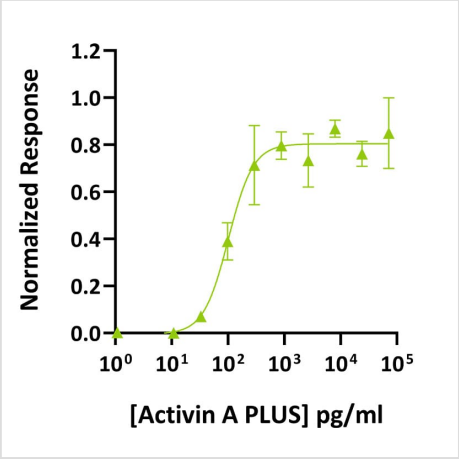
Further quality assays

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

Scientific Information

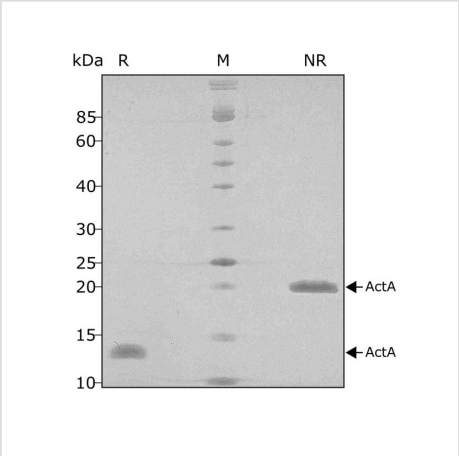
Bioactivity

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 is 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-human-activin-a-plus-protein/

PDF generated: 12 October 2026

Copyright © 2026 by Qkine Ltd. All rights reserved including graphics and images.