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Recombinant human activin E PLUS™ protein (Qk067)



Type: Stem cells

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

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Product Information

Human recombinant activin E PLUS™ protein is an optimized biologically active truncation of the mature domain of human activin E protein. Activin E is a member of the transforming growth factor-beta (TGF-ß) superfamily, a group of proteins that play key roles in regulating cell growth, differentiation, and inflammation. The tag-free form of activin E PLUS™ is of significant interest for drug discovery across various fields. Recombinant human (Qk082) and mouse (Qk008) Avi-tag activin E PLUS™ are also available.

High purity 23.2 kDa dimer comprising truncated mature domain, animal origin-free (AOF) and carrier-protein free (CF).

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

Alternative protein names

INHBE, Activin beta-E chain, Inhibin beta E chain, Qk67

Molecular weight

23.2 kDa (dimer)

Protein Uniprot number

Highly pure optimized form of the mature domain of activin E (UniProt: P58166)

Species reactivity

- human
- species similarity:
- mouse - 98%
- rat - 98%
- bovine - 95%
- porcine - 94%

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

- Drug discovery in endocrinology
- Drug discovery in inflammation
- Drug discovery in metabolism

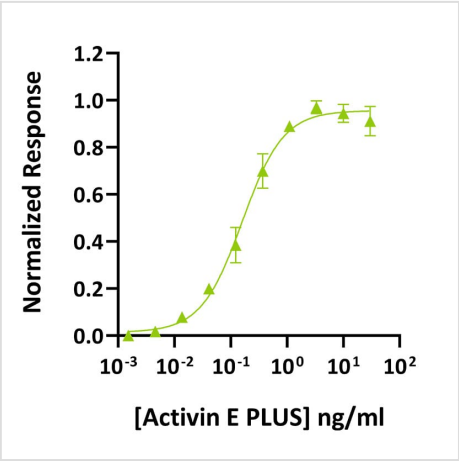
Further quality assays

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

Scientific Information

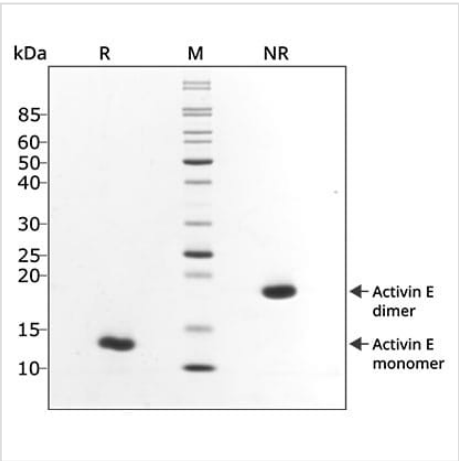
Bioactivity

Recombinant activin E PLUS™ activity was determined using a Smad reporter assay in HEK293 cells co-transfected with the activin E co-receptor ALK7. Cells were treated in triplicate with a serial dilution of activin E PLUS™ for 6 hours. Firefly activity was measured and normalised to the control Renilla luciferase activity. Data from Qk067 lot 204646. EC50 = 0.16 ng/ml (6.8 pM).



Purity

Recombinant activin E PLUS™ migrates as a major band at approximately 23 kDa (dimer) in non-reducing (NR) conditions. Upon reduction (R), only the monomer band at approximately 12 kDa is visible. 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 Qk067 lot #204646.



Original product page: https://qkine.com/product/recombinant-human-activin-e-plus-protein-qk067/

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