

Recombinant mouse activin E PLUS™ (Avi-tag) protein (Qk008)



Type: Stem cells

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

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Product Information

Mouse recombinant activin E PLUS™ (Avi-tag) protein is an optimized biologically active truncation of the mature domain of mouse activin E protein with an additional Avi-tag for easy biotinylation. Activin E is a member of the [TGF-beta](#) superfamily, a group of proteins that play key roles in regulating cell growth, differentiation, and inflammation. Qkine mouse Activin E PLUS™ protein is the first entirely [animal origin-free](#) bioactive recombinant mouse activin E protein for highly reproducible results and compatibility with chemically-defined media.

Qk008 is a high purity 27.1 kDa dimer with an Avi-tag, animal origin-free (AOF) and carrier-protein free (CF).

Alternative protein names

INHBE, Activin beta-E chain, Inhibin beta E chain, Qk08, Qk8

Molecular weight

27.1 kDa (dimer)

Protein Uniprot number

High purity optimized mouse protein with additional Avi-tag (UniProt: O08717)

Species reactivity

- mouse

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

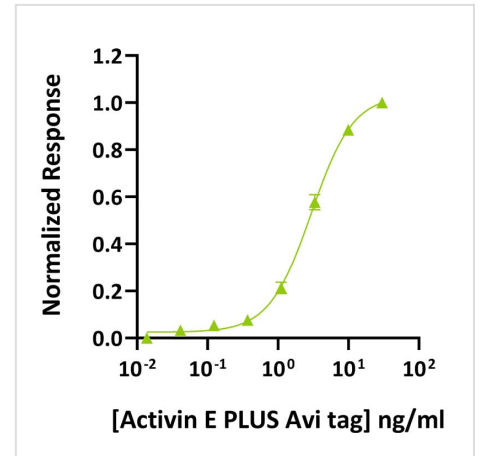
Further quality assays

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

Scientific Information

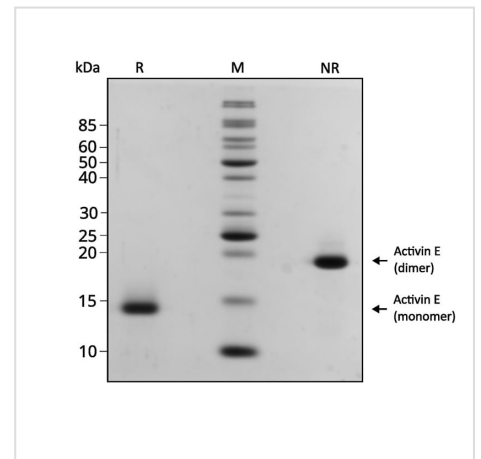
Bioactivity

Recombinant activin E PLUS™ (Avi-tag) 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™ (Avi-tag) for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk 008 lot #204718. EC50 = 3.0 ng/ml (109 pM).



Purity

Recombinant activin E PLUS™ (Avi-tag) migrates at approximately 13 kDa (monomer) in reduced (R) conditions and at approximately 27 kDa (dimer) in non-reduced (NR) conditions. 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 Qk008 lot #204725.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-mouse-activin-e-plus-avi-tag-protein-qk008/>

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