

## Recombinant human activin E PLUS™ (Avi-tag) protein (Qk082)



**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™ (Avi-tag) protein is an optimized biologically active truncation of the mature domain of human activin E protein with 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 human Activin E PLUS™ protein is the first entirely animal origin-free bioactive recombinant human activin E protein for highly reproducible results.

Qk082 is a high purity 27.2 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, Qk82

### Molecular weight

27.2 kDa (dimer)

### Protein Uniprot number

High purity optimized human protein with additional Avi-tag (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 metabolism
- Drug discovery in inflammation

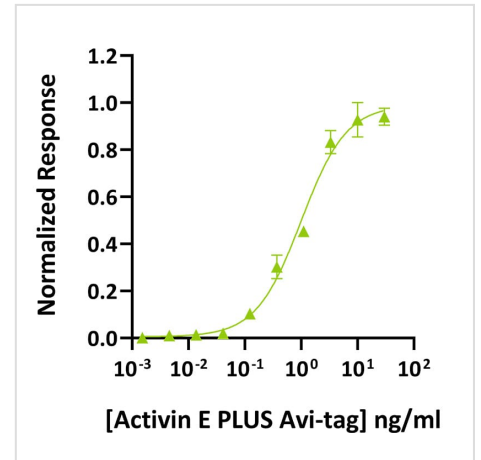
### **Further quality assays**

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

## Scientific Information

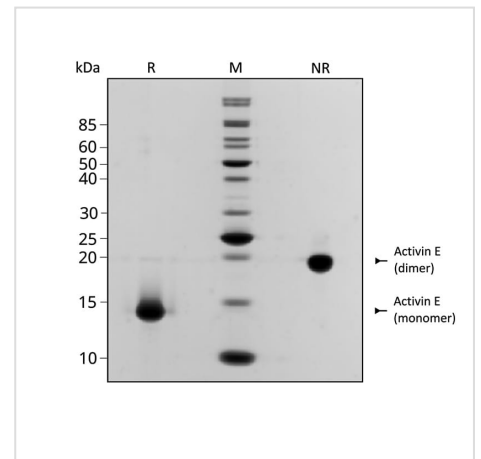
### Bioactivity

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 082 lot #204688. EC50 = 1.0 ng/ml (37 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 Qk082 lot #204688.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-activin-e-plus-avi-tag-protein-qk082/>

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