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Recombinant porcine TGF-β3 protein (Qk084)



Type: Stem cells

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

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Product Information

Porcine TGF beta 3 protein is a member of the transforming growth factor family, a family involved in regulating cell survival, proliferation and differentiation. Qkine is dedicated to supporting the cellular agriculture industry by manufacturing high-purity and bioactive growth factors that are species-specific to cultivated cultures. Porcine TGF-β3 is used in cultivated meat pluripotent stem cell maintenance medias, such as Beefy9 media.

Porcine TGF beta 3 is a protein dimer that is animal-origin free (AOF) and carrier-protein free (CF).

Alternative protein names

Transforming growth factor beta-3, TGF-b3, TGFB3, TGF B3, Prepro-transforming growth factor beta-3, Arrhythmogenic right ventricular dysplasia 1 (ARVD, ARVD1), Qk84

Molecular weight

25 kDa (dimer)

Protein Uniprot number

Highly pure porcine protein (UniProt number: P15203)

Species reactivity

- porcine

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

- Induced pluripotent and embryonic stem cell differentiation and maintenance
- iPSC-derived mesoderm differentiation
- Culture of porcine (pig) muscle stem cells
- Induction of cell migration, proliferation and extracellular matrix production
- Cellular agriculture and cultivated meat cell culture media optimization
- Inclusion in cultivated meat media

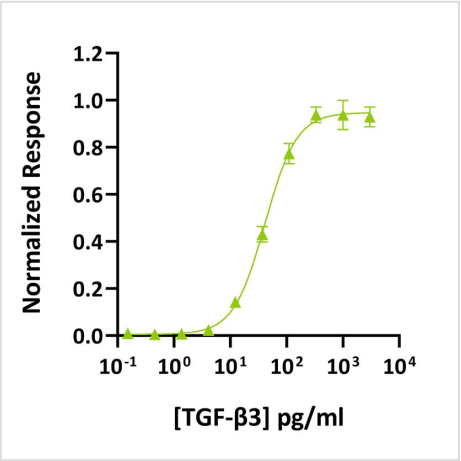
Further quality assays

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

Scientific Information

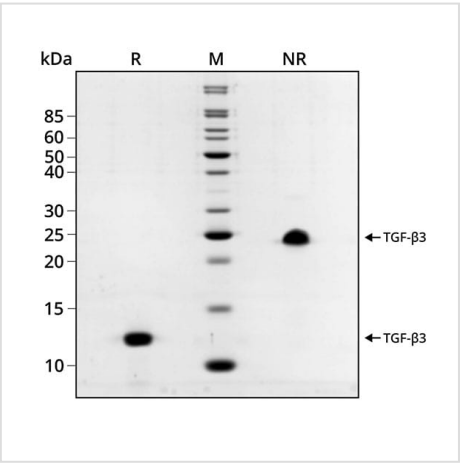
Bioactivity

Recombinant porcine TGF-β3 activity was determined using a TGF-β3-responsive luciferase assay. Transfected HEK293 cells were treated in triplicate with a serial dilution of porcine TGF-β3 for 6 hours. Firefly activity was measured and normalised to the control Renilla luciferase activity. Data from Qk084 lot 204635. EC50 = 41 pg/ml (1.6 pM)



Purity

Recombinant porcine TGF-β3 migrates at approximately 12.6 kDa (monomer) in reduced (R) and at approximately 25 kDa (dimer) in non-reduced (NR) conditions. 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 Qk084 lot #204635.



Original product page: https://qkine.com/product/recombinant-porcine-tgf-b3-protein-qk084/

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