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Recombinant mouse TGF-β3 protein (Qk019)



Type: Stem cells

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

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Product Information

Transforming growth factor beta 3 (TGF-β3) protein is a member of the TGF-β family, a family involved in regulating cell survival, proliferation and differentiation. TGF-β3 is used in pluripotent stem cell maintenance media.

Qkine mouse TGF-β3 is a highly pure and bioactive 25.4 kDa protein dimer. Qkine growth factors are animal-origin free (AOF) and carrier-protein free (CF) for reproducible results.

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), Qk19

Molecular weight

12.7 kDa (monomer) 25.4 kDa (dimer)

Protein Uniprot number

High purity TGF-β3 (Uniprot: P17125)

Species reactivity

- mouse
- species similarity:
- human - 100%

- rat - 99%
- bovine - 99%
- porcine - 98%

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

- Expansion and differentiation of mouse pluripotent stem cells
- Propagation of mouse embryonic stem cells
- iPSC-derived mesoderm differentiation

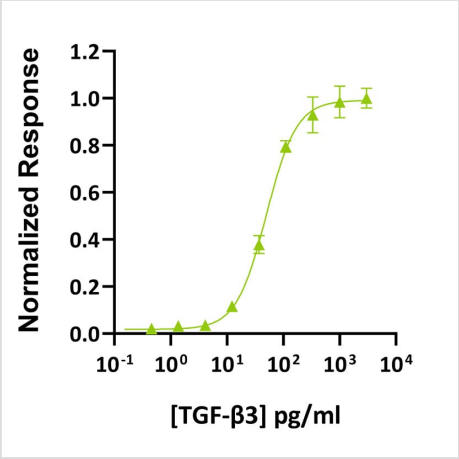
Further quality assays

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

Scientific Information

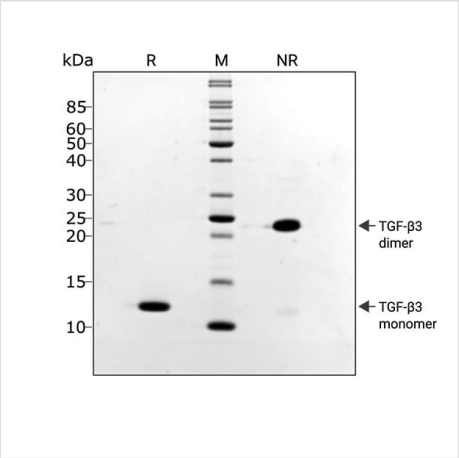
Bioactivity

TGF-β3 activity was determined using a TGF-β3 responsive firefly luciferase reporter in HEK293T cells. EC50 = 50 pg/ml. Bioactivity was determined using a TGF-β3 responsive firefly luciferase reporter in HEK293T cells. Cells were treated (in triplicate) with a serial dilution of TGF-β3 for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk054 batch #104369.



Purity

TGF-β3 migrates as a single band at 25 kDa in non-reducing (NR) conditions and 13 kDa upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk054 batch #104369.



Original product page: https://qkine.com/product/recombinant-mouse-tgf-%ce%b23-protein-qk019/

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