

Recombinant human TGF- β 3 protein (Qk054-CTG)



Type: Cell Therapy Grade

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

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Product Information

Human transforming growth factor beta 3 (TGF- β 3) protein is a member of the [TGF- \$\beta\$ family](#), a family involved in regulating cell survival, proliferation and differentiation. TGF- β 3 is used in human [pluripotent](#) stem cell maintenance media.

Qkine cell therapy grade TGF- β 3 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.

Qkine [cell therapy grade](#) high purity animal origin-free proteins are manufactured as GMP grade equivalents in an ISO 9001:2015-certified facility, under ISO 20399:2022 standards with GMP compliance, defined quality criteria and documentation.

This product is available to order now and will be in stock soon, please contact us for the estimated lead time ryan.weber@matriq.com

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), Qk54

Molecular weight

12.7 kDa (monomer) 25.4 kDa (dimer)

Protein Uniprot number

High purity human TGF- β 3 (Uniprot: P10600)

Species reactivity

- human
- species similarity:
- mouse - 100%
- rat - 99%
- bovine - 99%
- porcine - 98%

Product Information

- Certified animal origin-free (AOF)
- Cell and gene therapy grade
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lot-to-lot consistency in bioactivity
- Full traceability and documentation
- Carrier protein-free, tag free
- Expressed in *E. coli*
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Pluripotent stem cell therapy
- Regenerative stem cell therapy

Further quality assays

- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative
- Endotoxin: <0.05 EU/µg protein
- Residual host cell protein <10 ng/µg
- Residual host cell DNA <10 ng/µg

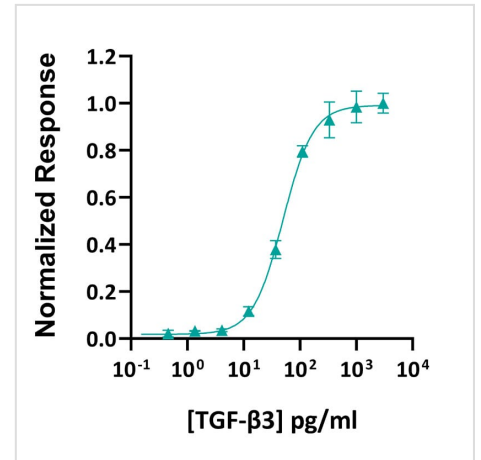
- N-terminal sequence analysis

Scientific Information

Bioactivity

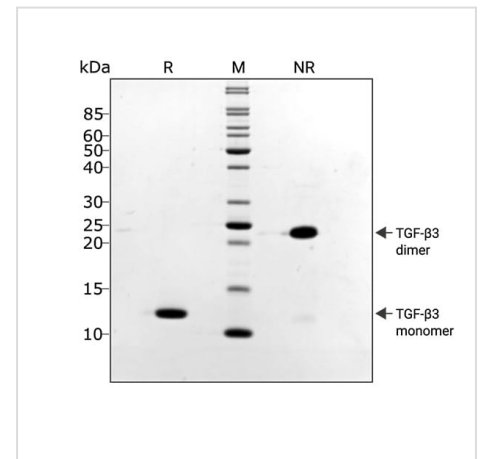
TGF- β 3 activity was determined using a TGF- β 3 responsive firefly luciferase reporter in HEK293T cells. EC50 = 50 pg/ml. Bioactivity was determined using a TGF- β 3 responsive firefly luciferase reporter in HEK293T cells. Cells were treated (in triplicate) with a serial dilution of TGF- β 3 for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk054 batch #104369.

The specific activity of recombinant human TGF- β 3 is $>1.0 \times 10^7$ units/mg, which is calibrated against the human TGF- β 3 WHO standard (NIBSC code: 09/234).



Purity

TGF- β 3 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 μ g) 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 Qk054 batch #104369.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-tgf-%ce%b23-protein-qk054-ctg/>

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