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Recombinant human TGF-β2 protein (Qk072)



Type: Stem cells

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

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Product Information

Transforming Growth Factor beta 2 (TGF-β2), part of the TGF-β superfamily, regulates a wide array of cellular processes, including proliferation, differentiation, wound healing, apoptosis, metabolism, embryogenesis, and tissue repair. It is an essential growth factor in many embryonic and induced pluripotent stem cell culture media.

TGF-β2 is a high purity protein with a molecular weight of 25.4 kDa. This protein is carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. Qkine TGF-β2 is suitable for the culture of reproducible and high-quality stem cells and other relevant cells.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

Transforming growth factor-beta 2, Transforming growth factor beta-2, TGF-beta 2, TGFβ2, TGFB2, TGF-B2, TGF B2, Cetermin, Glioblastoma-derived T-cell suppressor factor, G-TSF, MGC116892, BSC-1, BSC-1 cell growth inhibitor, Polyergin, Qk72

Molecular weight

25.4 kDa (dimer)

Protein Uniprot number

High purity human TGF-β2 protein (UniProt: P61812)

Species reactivity

- human
- species similarity:
- mouse - 97%
- rat - 97%
- bovine - 100%
- porcine - 100%

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

- Stem cell expansion and maintenance
- Epithelial to mesenchymal transition
- Stimulation of protein expression and secretion

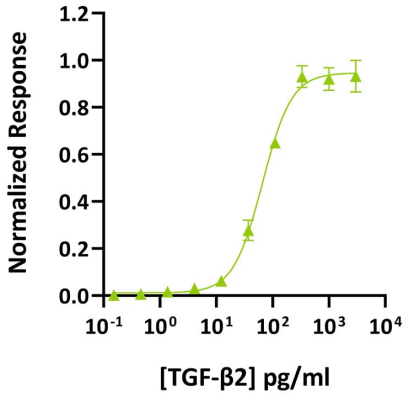
Further quality assays

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

Scientific Information

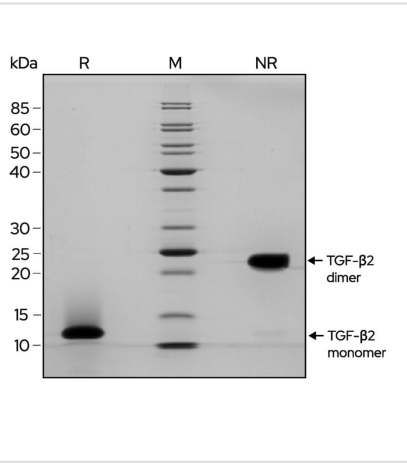
Bioactivity

TGF-β2 activity was determined using the TGF-β2-responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of TGF-β2 for 6 hours. Firefly luciferase activity was measured and normalised to the control Renilla luciferase activity. Data from Qk072 lot #204596. EC50 = 66 pg/ml (2.6 pM)



Purity

Recombinant TGF-β2 migrates as a major band at approximately 25 kDa (dimer) in non-reducing (NR) conditions. Upon reduction (R), only the monomer band at approximately 12.5 kDa is visible. 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 Qk072 lot #204596.



Original product page: https://qkine.com/product/recombinant-human-tgf-b2-protein-qk072/

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