

Recombinant bovine/porcine TGF- β 2 protein (Qk112-FG)



Type: Food grade proteins

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

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Product Information

Transforming Growth Factor beta 2 (TGF- β 2), part of the [TGF- \$\beta\$ 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.

Qkine TGF- β 2 (Qk112-FG) is a [high quality food grade](#) 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. TGF- β 2 is suitable for the culture of reproducible and high-quality stem cells and other relevant cells.

Alternative protein names

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

Molecular weight

25.4 kDa (dimer)

Protein Uniprot number

High purity bovine/porcine protein (UniProt: P21214)

Species reactivity

- bovine
- porcine

Product Information

- High quality food grade recombinant protein
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

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

Featured applications

- Cellular agriculture and cultivated meat cell culture media optimization
- Bovine and porcine stem cell expansion and maintenance

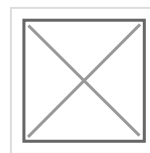
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

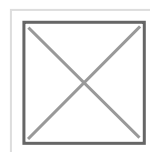
Bioactivity

TGF- β 2 activity was determined using the TGF- β 2-responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of TGF- β 2 for 6 hours. Firefly luciferase activity was measured and normalised to the control Renilla luciferase activity. EC50 = 66 pg/ml (2.6 pM).



Purity

Recombinant TGF- β 2 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 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.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-bovine-porcine-tgf-%ce%b22-protein-qk112-fg/>

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