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Recombinant human IGF-2 protein (Qk118)



Type: Stem cells

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

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Product Information

Insulin-like Growth Factor 2 (IGF-2) is a growth factor that promotes cell proliferation, differentiation, and survival, particularly during fetal development. IGF-2 also regulates tissue growth and muscle regeneration. Recombinant IGF-2 stimulates proliferation and differentiation in various stem cell cultures.

Qkine human IGF-2 is a highly pure 7.5 kDa monomer, animal origin-free (AOF) and carrier-protein-free (CF). Qkine has optimized the IGF-2 manufacturing process to produce a highly bioactive protein with excellent lot-to-lot consistency for enhanced experimental reproducibility.

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

Alternative protein names

Insulin-like growth factor II, IGF2, IGF-II, Somatomedin-A, T3M-11-derived growth factor, IGF 2

Molecular weight

7.5 kDa

Protein Uniprot number

High purity human IGF-2 protein (Uniprot: P01344)

Species reactivity

- human
- species similarity:
- mouse - 91%
- rat - 94%
- bovine - 95%
- 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 sterile-filtered water at >50 µg/ml

Featured applications

- Cellular proliferation, migration and survival
- iPSC and primary cell differentiation to muscle
- Osteogenic differentiation

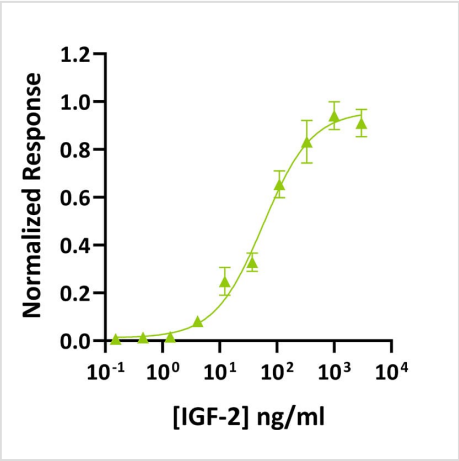
Further quality assays

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

Scientific Information

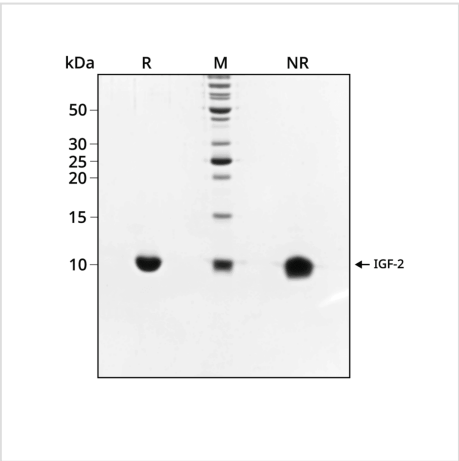
Bioactivity

Recombinant IGF-2 activity was determined using an SRE reporter assay on transfected MCF-7 cells. Cells were treated in triplicate with a serial dilution of IGF-2 for 4 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk118 lot 204687. EC50 = 58 ng/ml (7.8 nM)



Purity

Recombinant IGF-2 migrates at approximately 7.5 kDa in reduced (R) and non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 18% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk118 lot #204687.



Original product page: https://qkine.com/product/recombinant-human-igf-2-protein-qk118/

PDF generated: 12 October 2026

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