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Recombinant human IL-7 protein (Qk095-CTG)



Type: Cell Therapy Grade

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

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Product Information

Interleukin-7 (IL-7) is a vital cytokine essential for immune system regulation, particularly in the development and maintenance of T cells, playing a crucial role in both adaptive and innate immune responses. Recombinant human IL-7 stimulates the development of lymphoid progenitor cells.

Qkine has optimized the IL-7 manufacture process to produce a highly bioactive protein with excellent lot-to-lot consistency for enhanced experimental reproducibility. Cell therapy grade IL-7 is a highly pure and bioactive 17.5 kDa monomer with extensive quality testing.

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.

Contact us for pricing and availability **customerservice@qkine.com**

Alternative protein names

Interleukin 7, IL7, IL 7, Qk95, Qk95 CTG, IL-7 GMP

Product Size Wording

Contact us for pricing and availability

Molecular weight

17.5 kDa (monomer)

Protein Uniprot number

High purity human IL-7 protein (Uniprot number: P13232)

Species reactivity

- human
- species similarity:
- mouse - 56%
- rat - 57%
- bovine - 71%
- porcine - 69%

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 sterile-filtered water at >50 µg/ml

Featured applications

- Immune cell therapy expansion
- CAR-T cell therapy manufacturing

Further quality assays

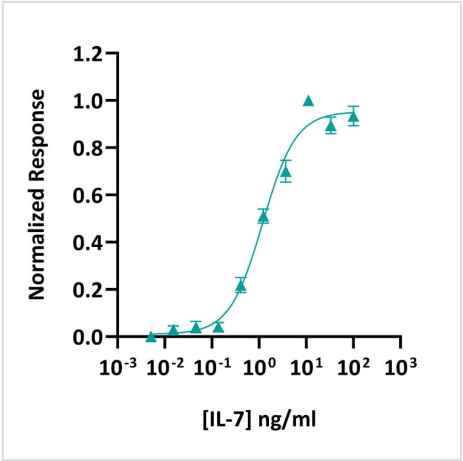
- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative

- 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

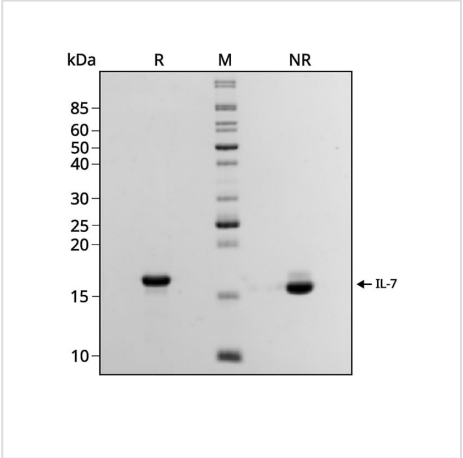
Recombinant IL-7 activity was determined using a SRE luciferase reporter assay in transiently transfected HEK293 cells co-transfected with IL-7Rα and IL-7Rγ. Transfected cells were treated in triplicate with a serial dilution of IL-7 for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk095 lot #204669. EC50 = 1.20 ng/ml (69 pM).



The specific activity of cell therapy grade IL-7 is >1.0 x 10^8 IU/mg, which is calibrated against the human IL-7 WHO standard (NIBSC code: 90/530).

Purity

Recombinant IL-7 migrates as a major band at approximately 17.5 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. 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 Qk095 lot #204669.



Original product page: https://qkine.com/product/recombinant-human-il-7-protein-qk095-ctg/

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