

## Recombinant human IL-7 protein (Qk095)



**Type:** Stem cells

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

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### Product Information

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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. Qkine IL-7 is a highly pure 17.5 kDa monomer, [animal origin-free](#) (AOF) and carrier-protein-free (CF).

**Qkine IL-7 is also available as [cell therapy grade](#) with extended quality testing and documentation - [Qk095-CTG](#)**

#### Alternative protein names

Interleukin 7, IL7, IL 7, Qk95

#### 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**

- >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**

- Development, survival, and function of T cells
- Activation of T-cells and natural killer (NK) cells
- Development of regenerative medicine and vaccines
- Immunoregulatory function

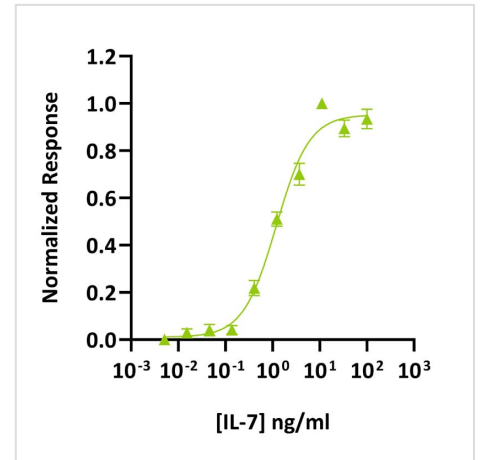
### **Further quality assays**

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

## Scientific Information

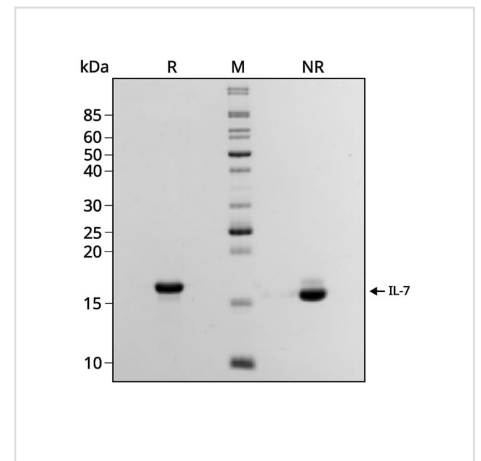
### Bioactivity

Recombinant IL-7 activity was determined using a SRE luciferase reporter assay in transiently transfected HEK293 cells co-transfected with IL-7R $\alpha$  and IL-7R $\gamma$ . 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).



### 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  $\mu$ g) was resolved using 15% w/v SDS-PAGE in reduced (+ $\beta$ -mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk095 lot #204669.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-il-7-protein-qk095/>

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