

## Recombinant human IL-18 protein (Qk100)



**Type:** Stem cells

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

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### Product Information

Interleukin-18 (IL-18) is a proinflammatory cytokine that plays a role in both the innate immune and acquired immune responses. IL-18 stimulates T cells, NK cells and dendritic cells and can act in combination with other [interleukins](#) to stimulate interferon (IFN) $\gamma$ . Recombinant IL-18 can be used to reduce proliferation and maintain pluripotency in [hematopoietic stem cells](#). IL-18 may have potential therapeutic applications in enhancing antitumor immunity by promoting the differentiation of effector T cells.

Qkine recombinant human IL-18 is an 18 kDa highly pure and bioactive protein suitable for immune cell culture and activation.

**This protein is also available as GMP compliant [Cell Therapy Grade](#), to enquire email [ryan.weber@matriq.com](mailto:ryan.weber@matriq.com).**

#### Alternative protein names

Interleukin 18, IL1F4, IGIF, IFN-Gamma-Inducing Factor, Interleukin-1 Gamma, Iboctadekin, IL-1 Gamma, IL18, IL 18, il-18, il 18

#### Molecular weight

18 kDa (monomer)

#### Protein Uniprot number

High purity human protein (Uniprot: Q14116)

#### Species reactivity

- human
- species similarity:
- mouse - 66%
- rat - 64%
- bovine - 78%
- porcine - 75%

### **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 PBS and TCEP

### **Reconstitution instructions**

- Resuspend in sterile-filtered water at >50 µg/ml

### **Featured applications**

- Drug discovery in inflammation
- Development and formation of NK cells
- Stimulation of activated T cell proliferation
- Hematopoietic stem cell regulation
- Autoimmune disease research
- Cancer immunotherapy

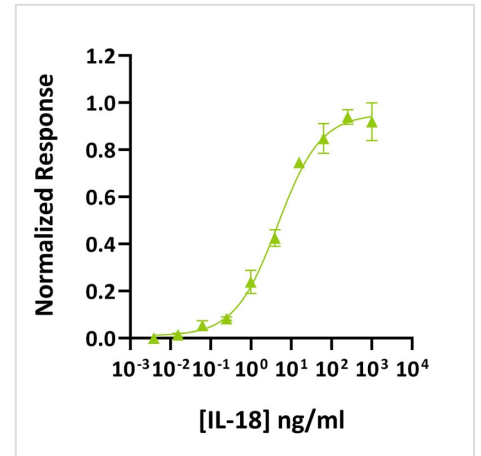
### **Further quality assays**

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

## Scientific Information

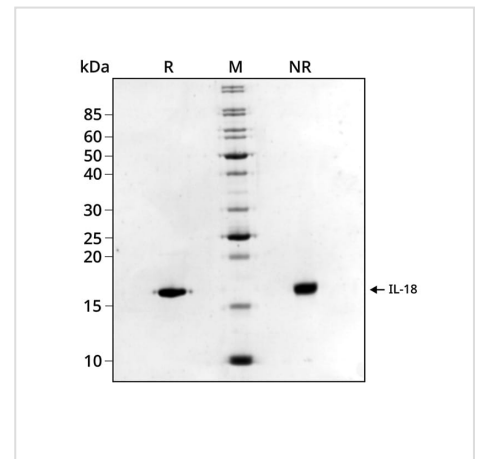
### Bioactivity

Recombinant IL-18 activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells, co-transfected with IL-18Ra. Cells were treated in triplicate with a serial dilution of IL-18 for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk100 lot #204753. EC50 = 4.55 ng/ml (0.25 nM).



### Purity

Recombinant IL-18 migrates as a monomer at approximately 18 kDa 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 Qk100 lot #204753.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-il-18-protein-qk100/>

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