

Recombinant human IL-6 protein (Qk093)



Type: Stem cells

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

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Product Information

Interleukin-6 (IL-6) is a multifunctional cytokine that regulates immune responses and inflammation. It is produced by various cells, including immune cells such as [T cells](#) and macrophages, as well as non-immune cells like fibroblasts and [endothelial cells](#).

Human IL-6 has a molecular weight of 20.9 kDa. This protein is [animal origin-free](#), carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. IL-6 is suitable for the culture of reproducible and high-quality [hematopoietic stem cells](#) and other relevant cells.

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

Alternative protein names

B-cell stimulatory factor 2 (BSF-2), CTL differentiation factor (CDF), Hybridoma growth factor, Interferon beta-2 (IFN-beta-2), IL 6, IL6, Qk93

Molecular weight

20.9 kDa (monomer)

Protein Uniprot number

High purity human IL-6 protein (Uniprot number: P05231)

Species reactivity

- human
- species similarity:
- mouse - 39%
- rat - 38%
- bovine - 50%
- porcine - 58%

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 HEPES, NaCl

Reconstitution instructions

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

Featured applications

- Stimulation of activated B cell proliferation
- Stimulation of T cell differentiation
- Hematopoietic stem cell regulation
- Proliferation and differentiation of erythrocytes, leukocytes and platelets

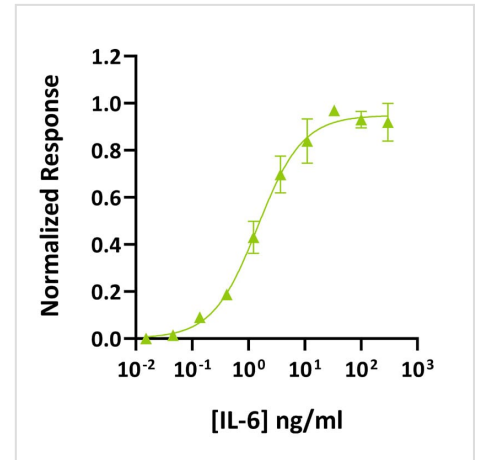
Further quality assays

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

Scientific Information

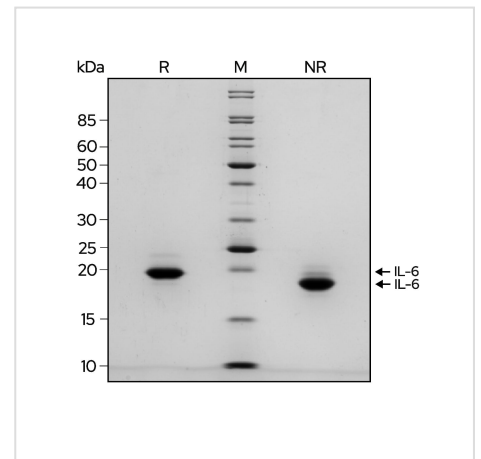
Bioactivity

IL-6 protein activity was determined using the IL-6-responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of IL-6 for 24 hours. Firefly luciferase activity was measured and normalised to the control Renilla luciferase activity. Data from Qk093 lot #204594. EC50 = 1.46 ng/ml (70 pM)



Purity

Recombinant IL-6 migrates as a major band at approximately 20 kDa in non-reducing (NR) and at approximately 18 kDa in reduced (R) 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 Qk093 lot #204599.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-il-6-protein-qk093/>

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