

## Recombinant human IL-8 protein (Qk119)



**Type:** Stem cells

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

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### Product Information

Interleukin-8 (IL-8) is an inflammatory cytokine that acts as a chemoattractant to neutrophils. It promotes the differentiation of hematopoietic progenitors into monocytic lineages including megakaryocytes, monocytes and macrophages. IL-8 can be used for the culture and differentiation of reproducible and high-quality [hematopoietic stem cells](#) and proliferation and migration in relevant cells.

Qkine recombinant human IL-8 has a molecular weight of 8.9 kDa. This protein is animal origin-free, carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency.

**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-8, C-X-C motif chemokine 8, Chemokine (C-X-C motif) ligand 8, Emotakin, Granulocyte chemotactic protein 1 (GCP-1), Monocyte-derived neutrophil chemotactic factor (MDNCF), Monocyte-derived neutrophil-activating peptide (MONAP), Neutrophil-activating protein 1 (NAP-1), Protein 3-10C, T-cell chemotactic factor, IL 8, IL8

#### Molecular weight

8.9 kDa (monomer)

#### Protein Uniprot number

High purity human protein (Uniprot: P10145)

### **Species reactivity**

- human
- species similarity:
- mouse - 80%
- bovine - 76%
- porcine -76%

### **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 10 mM HCl (Reconstitution solution A) at >50 µg/ml

### **Featured applications**

- Differentiation into monocytic lineages
- Chemotaxis experiments
- Differentiation of osteoclasts

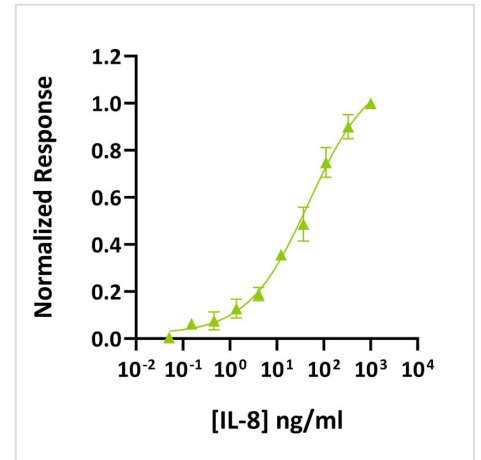
### **Further quality assays**

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

## Scientific Information

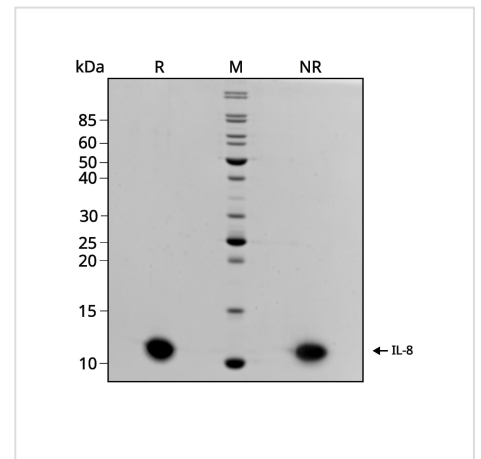
### Bioactivity

Recombinant IL-8 activity was determined using an IL-8-responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of IL-8 for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk119 lot #204742. EC<sub>50</sub> = 49 ng/ml (5.44 nM).



### Purity

Recombinant IL-8 migrates as a major band at approximately 11 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 Qk119 lot #204742.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-il-8-protein-qk119/>

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