

## Recombinant human Flt3L protein (Qk087)



**Type:** Stem cells

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

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### Product Information

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Fms-like tyrosine kinase 3 ligand (Flt-3 Ligand or Flt3L) is a cytokine that is involved in the regulation of hematopoiesis. It stimulates the survival, proliferation, and differentiation of various early myeloid and lymphoid progenitor cells. Flt3L is commonly used in the differentiation of hematopoietic stem cells into dendritic cells.

Human recombinant Flt3L has a molecular weight of 17.6 kDa. This protein is [animal origin-free](#), carrier protein-free, tag-free, and non-glycosylated to ensure a homogenous population with exceptional lot-to-lot consistency. Flt3L is suitable for the culture of reproducible and high-quality myeloid progenitors and dendritic cells.

**Qkine Flt3L is also available as [cell therapy grade](#) with extended quality testing and documentation - [Qk087-CTG](#)**

#### Alternative protein names

FL; FLG3L; Flt3 ligand; Flt-3 Ligand; Flt3L; FLT3LG; fms-related tyrosine kinase 3 ligand; SL cytokine, Qk87

#### Molecular weight

17.6 kDa (monomer)

#### Protein Uniprot number

High-purity human protein (UniProt: P49771)

#### Species reactivity

- human
- species similarity:
- mouse - 70%

### **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 Tris

### **Reconstitution instructions**

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

### **Featured applications**

- Generation of iPSC-derived myeloid and lymphoid progenitors
- Differentiation of myeloid cells into dendritic cells
- Generation of iPSC-derived dendritic cells
- Maintenance of peripheral blood cells

### **Further quality assays**

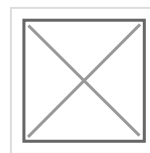
- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

## Scientific Information

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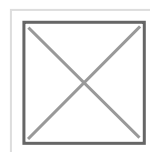
### Bioactivity

Flt3L activity was determined using proliferation of AML5 human myeloid leukemia cells. Cells were treated in triplicate with a serial dilution of Flt3L for 68.5 hours. Cell viability was measured using the CellTiter 96 AQueous One Solution Cell Proliferation Assay (Promega). EC50 = 0.28 ng/ml (0.016 nM). Data from Qk087 lot #204566.



### Purity

Recombinant Flt3L migrates as a major band at approximately 17.6 kDa in non-reducing (NR) and 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 conditions and stained with Coomassie Brilliant Blue R250. Data from Qk087 lot #204566.



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**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-flt3l-protein-qk087/>

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