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Recombinant human Flt3L protein (Qk087-CTG)



Type: Cell Therapy Grade

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

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Product Information

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 cell therapy grade protein is animal origin-free, carrier protein-free, tag-free, and non-glycosylated to ensure a homogenous population with exceptional lot-to-lot consistency.

Qkine cell therapy grade high purity animal origin-free proteins are manufactured as GMP grade equivalents in an ISO 9001:2015-certified facility, under ISO 20399:2022 standards with GMP compliance, defined quality criteria and documentation.

This product is available to order now and will be in stock soon, please contact us for the estimated lead time customerservice@qkine.com

Alternative protein names

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

Molecular weight

17.6 kDa (monomer)

Protein Uniprot number

High-purity human protein (UniProt: P49771)

Species reactivity

- human
- species similarity:
- mouse - 70%

Product Information

- Certified animal origin-free (AOF)
- Cell and gene therapy grade
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lot-to-lot consistency in bioactivity
- Full traceability and documentation
- Carrier protein-free, tag free
- Expressed in *E. coli*
- Lyophilized from Tris

Reconstitution instructions

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

Featured applications

- Generation of iPSC-derived dendritic cells
- Immune cell therapy expansion
- CAR-T cell therapy manufacturing

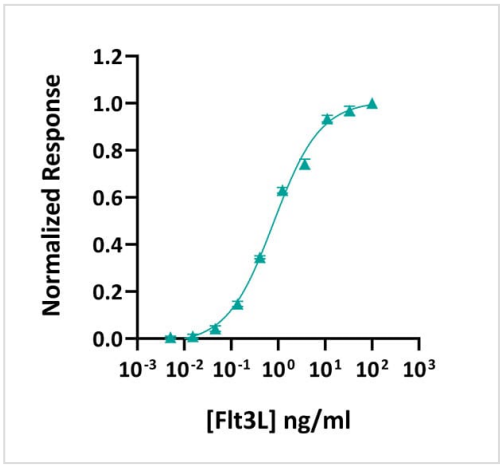
Further quality assays

- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative
- Endotoxin: <0.05 EU/µg protein
- Residual host cell protein <10 ng/µg
- Residual host cell DNA <10 ng/µg
- N-terminal sequence analysis

Scientific Information

Bioactivity

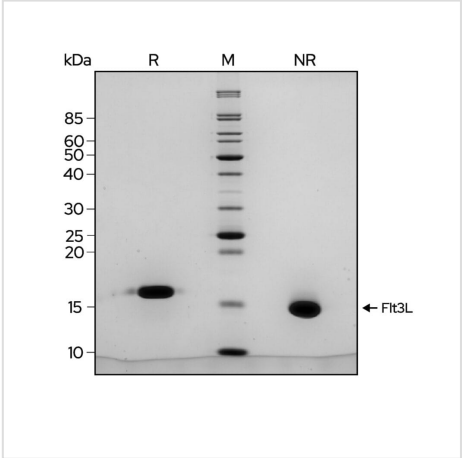
Flt3L activity was determined using proliferation of AML5 human myeloid leukemia cells. Cells were treated in triplicate with a serial dilution of Flt3L for 72 hours. Cell viability was measured using the CellTiter-Glo Cell Proliferation Assay (Promega). Data from Qk087-CTG lot #204783. EC50 = 0.80 ng/ml (45 pM).



The specific activity of recombinant cell therapy grade Flt3L is >0.6 x 10^6 IU/mg, which is calibrated against the human Flt3L standard (NIBSC code: 96/532).

Purity

Recombinant Flt3L migrates as a major band at approximately 17.6 kDa in non-reducing (NR) ad 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.



Original product page: https://qkine.com/product/recombinant-human-flt3l-protein-qk087-ctg/

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