

CHAMOT

Recombinant Flt-3 Ligand, Human, GMP

CM086-100HPG

CM086-1000HPG



CHAMOT

乔默®生物

Specialize In Cytokines



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Recombinant Flt-3 Ligand, Human, GMP

Catalog#	CM086-100HPG	CM086-1000HPG
Size	100 ug	1 mg

Product Specifications

Background

Fms-related tyrosine kinase-3 ligand (Flt-3 Ligand) is a protein which is encoded by the FLT3LG gene in human. As an important regulator of hematopoiesis, Flt-3 ligand has a tyrosine-protein kinase activity that stimulate the proliferation of hematopoietic progenitor cells of both lymphoid and myeloid origin. Flt-3 ligand can synergistically increase the proliferation of immature progenitors with other cytokines such as GM-CSF, G-CSF, IL-3, EPO, IL-11, IL-12, IL-6 or TPO. Flt-3 ligand is expressed by a variety of hematopoietic progenitor cells including immature hematopoietic and marrow stromal cells.

Synonyms

fms-related tyrosine kinase-3 ligand, FL, FLG3L, FLT3L

Uniprot ID

P49771

Molecular Weight

The protein has a calculated MW of 18.6 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).

Expression System

Escherichia coli

Purity

>95% as determined by SDS-PAGE analysis.

Activity

Measure by its ability to induce proliferation in BaF3 cells transfected with mouse Flt-3. The ED₅₀ for this effect is <0.8 ng/mL. The specific activity of recombinant human Flt-3 Ligand is > 1.5 x 10⁶ IU/mg.

Endotoxin Level

<0.05 EU per 1 µg of the protein by the LAL method.

Protein Sequence

MTQDCSFQHSPISDFAVKIRELSYLLQDYPVTVASNLQDEELCGGLWRLVLAQRWMERLKTAVAGSKMQGLLERVNTIEHFVTKCAFPQPPSCLRFVQTNISRLLQETSEQLVALKPWITRQNFRCLELQCQPDSSTLPPPWSPRPLEATAPTA with polyhistidine tag at the C-terminus.

Form

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

Application

Cell Culture

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

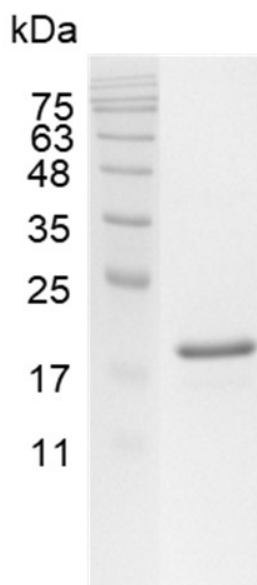
Stability & Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data



SDS- PAGE analysis of GMP human Flt-3 Ligand

For Research Use or Further Manufacturing Only

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