

Active Recombinant Human FLT3LG Protein, Pre-aliquoted

Cat. No. FLT3LG-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3LG Protein, Thr27-Pro185, was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	Thr27-Pro185
Description	Dendritic cells (DCs) provide the key link between innate and adaptive immunity by recognizing pathogens and priming pathogen-specific immune responses. FLT3LG controls the development of DCs and is particularly important for plasmacytoid DCs and CD8 (see MIM 186910)-positive classical DCs and their CD103 (ITGAE; MIM 604682)-positive tissue counterparts (summary by Sathaliyawala et al., 2010 [PubMed 20933441]).
Bio-activity	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with mouse Flt-3. The ED50 for this effect is 0.2-1 ng/mL.
Molecular Mass	Predicted Molecular Mass:17.5 kDa SDS-PAGE: 17-30 kDa, reducing conditions
N-terminal Sequence Analysis	Thr27
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.

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Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 100 µg/mL in sterile PBS, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

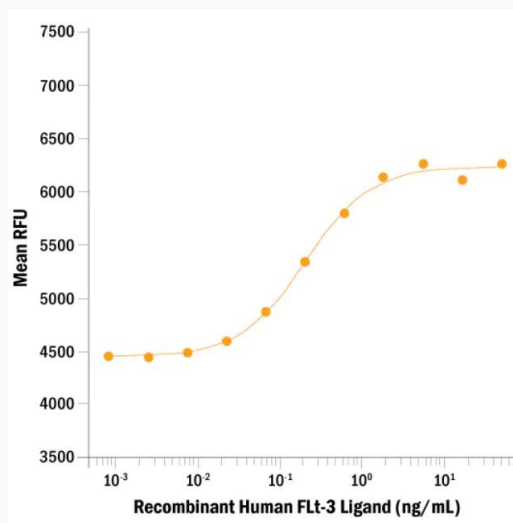
Gene Name	FLT3LG fms related receptor tyrosine kinase 3 ligand [Homo sapiens (human)]
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms related receptor tyrosine kinase 3 ligand; FL; FLG3L; FLT3L; fms-related tyrosine kinase 3 ligand; flt3 ligand; fms related tyrosine kinase 3 ligand
Gene ID	2323
mRNA Refseq	NM_001459
Protein Refseq	NP_001450
MIM	600007
UniProt ID	P49771

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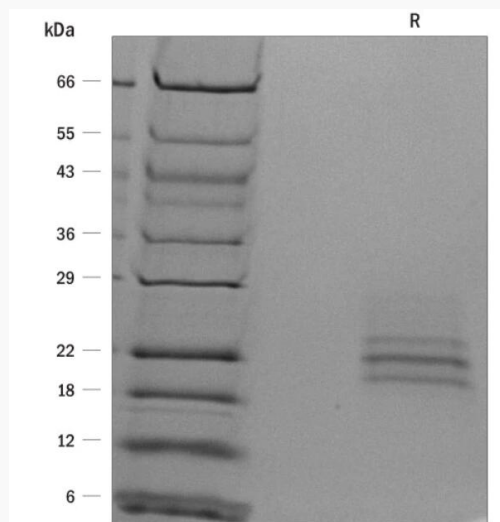
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Bio-activity



Recombinant Human Flt-3 Ligand stimulates cell proliferation in the BaF3 mouse Pro-B cell line transfected with mouse Flt-3. The ED50 for this effect is 0.2-1 ng/mL.

SDS-PAGE



1 µg/lane of Recombinant Human Flt-3 Ligand was resolved with SDS-PAGE under reducing (R) conditions and visualized with silver staining, showing major bands at

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20-24 kDa. The multiple bands are due to variable glycosylation of the protein.