

Active Recombinant Human FLT3LG Protein (Thr27-Ala181), GMP Grade, Animal-Free

Cat. No. FLT3LG-32HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human Flt-3 Ligand/FLT3L protein (Thr27-Ala181) without tag was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Thr27-Ala181
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.
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. The specific activity of Recombinant Human Flt-3 Ligand/FLT3L is >5.0 x 10 ⁵ units/mg, which is calibrated against the human Flt-3 Ligand WHO Standard.
Molecular Mass	Predicted Molecular Mass: 18 kDa SDS-PAGE: 15-17 kDa, under reducing conditions

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N-terminal Sequence Analysis	Met-Thr27-Gln-Asp-(Cys)-Ser-Phe-Gln-His-Ser and Thr27-Gln-Asp-(Cys)-Ser-Phe-Gln-His-Ser-Pro
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 6 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100-500 µg/mL in PBS.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [Homo sapiens]
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; flt3 ligand; FL; FLT3L;
Gene ID	2323
mRNA Refseq	NM_001204502

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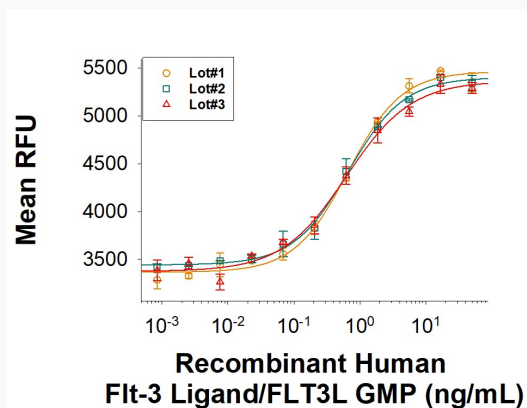
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001191431

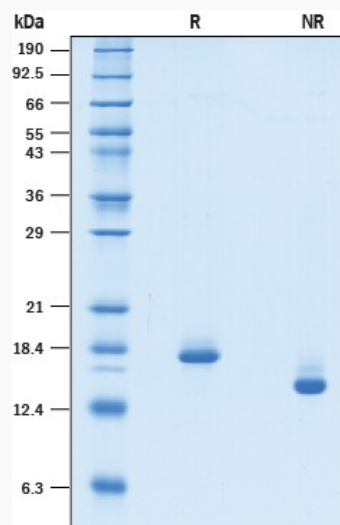
MIM 600007

UniProt ID P49771

Bioactivity



SDS-PAGE



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