


Human Flt-3 Ligand protein, His tag (Animal-Free)

Cat #: PRP1062

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human Flt-3 Ligand protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1062	LOT	Lot Number: Refer to product label
	Purity: >95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Fms-like Tyrosine Kinase 3 Ligand (Flt-3 Ligand), also known as FLT3L, is a small molecule that acts as a growth factor that increases the number of immune cells by activating the hematopoietic progenitors. In vivo, Flt-3 Ligand also induces the mobilization of the hematopoietic progenitors and stem cells. This may help the system to kill cancer cells. Dendritic cells (DCs) provide the key link between innate and adaptive immunity by recognizing pathogens and priming pathogen-specific immune responses. Flt-3 Ligand controls the development of DCs and is particularly important for plasmacytoid DCs and CD8-positive classical DCs and their CD103-positive tissue counterparts.

Sequence: Amino acid sequence derived from Human Flt-3 Ligand (Thr27-Ala181)(P49771) was expressed with 6×His tag at the C-terminus.

Protein length: The secreted Human Flt-3 Ligand consists of 155 amino acids and has a predicted molecular mass of 17.6 kDa.

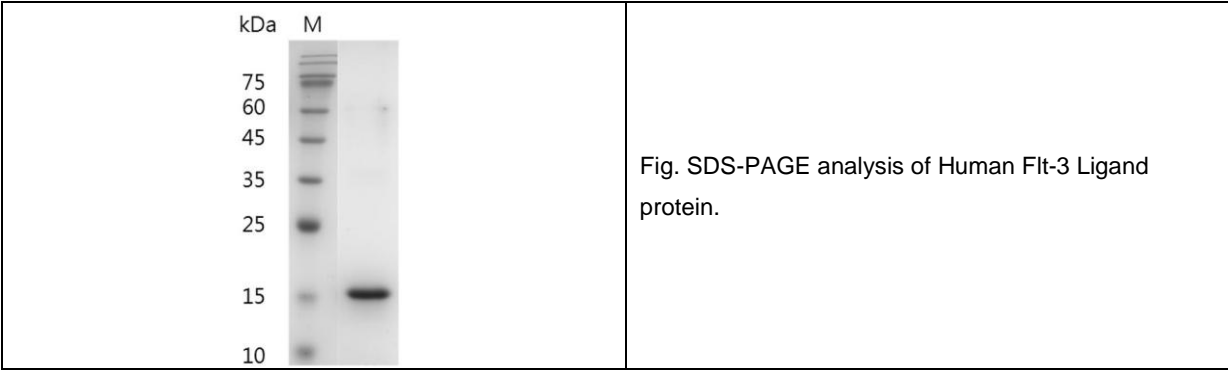
Biological Activity: Measure by its ability to induce proliferation in BaF3 cells transfected with human Flt-3. The ED₅₀ for this effect is <0.8 ng/mL. The specific activity of recombinant Human Flt-3 Ligand is >1.5 x 10⁶ IU/mg.

Endotoxin: <0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human Flt-3 Ligand protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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