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## Human Fms-related Tyrosine Kinase 3 Ligand (hFLT3L)

**For Research Use Only. Not for Use in Diagnostic Procedures.**

MW (kDa):	UniProt ID:	Entrez-Gene Id:
24	#P49771	2323
<b>Background</b>	FLT3L is produced by T cells and stromal fibroblasts (1,2). FLT3L targets many cell types including hematopoietic stem cells, B cells, T cells, dendritic cells, and NK cells (1,2). FLT3L in combination with other factors stimulates differentiation and proliferation of hematopoietic multipotent progenitors and promotes proliferation of NK cells and dendritic cell subsets. There are two splice variants of FLT3L. Both the integral membrane and soluble splice variants are biologically active (1). Binding of FLT3L to its cognate tyrosine kinase receptor, FLT3, activates STAT3 and STAT5 (1,3). FLT3L is being tested for its ability to stimulate anti-tumor immune response via stimulation of dendritic and NK cells.	
<b>Endotoxin</b>	Less than 0.01 ng endotoxin/1 µg hFLT3L.	
<b>Purity</b>	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hFLT3L. All lots are greater than 98% pure.	
<b>Source / Purification</b>	Recombinant human FLT3L (hFLT3L) Thr27-Pro185 (Accession #BC126293.1) was expressed in human 293 cells at Cell Signaling Technology.	
<b>Bioactivity</b>	The bioactivity of recombinant hFLT3L was determined in a cell proliferation assay using BAF3 cells transfected with FLT3. The ED <sub>50</sub> of each lot is between 1.1 - 2.3 ng/ml.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Dong, J. et al. <i>Cancer Biol Ther</i> 1, 486-9.</li> <li>Wodnar-Filipowicz, A. (2003) <i>News Physiol Sci</i> 18, 247-51.</li> <li>Onai, N. et al. (2006) <i>J Exp Med</i> 203, 227-38.</li> </ol>	

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