Store at -20°C

Human FLT3L Recombinant Protein

#49812

10 µg

New 11/20

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Entrez-Gene ID #2323
UniProt ID #P49771

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Background: 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.

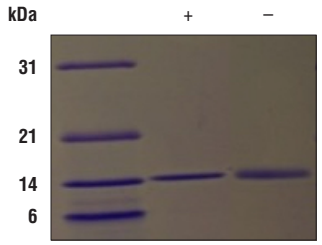
Molecular Weight: 18 kDa

Endotoxin: Endotoxin levels are ≤ 1 EU / 1 µg hFLT3L.

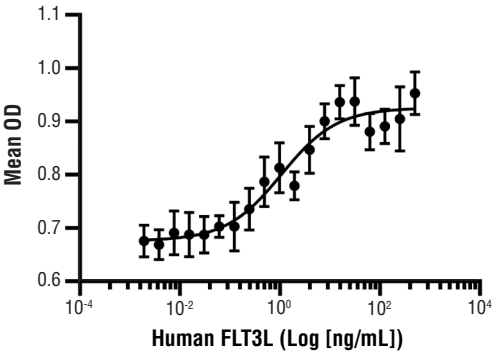
Purity: ≥ 95% purity was determined by SDS-PAGE.

Source/Purification: Recombinant human FLT3L was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity: The bioactivity of recombinant hFLT3L was determined in an OCI-AML5 cell proliferation assay. The ED_{50} of each lot is ≤ 10 ng/ml.



The purity of Human FLT3L Recombinant Protein was determined by SDS-PAGE of 1 µg reduced (+) and non-reduced (-) recombinant hFLT3L and staining with Coomassie Blue.



Serial dilutions of Human FLT3L Recombinant Protein were added to OCI-AML5 cells. Cell proliferation was measured and the linear portion of the curve was used to calculate the ED_{50}.

Storage: Human FLT3L Recombinant Protein is supplied as lyophilized material that is very stable at -20°C. It is recommended to reconstitute with sterile water at a concentration of 0.1 mg/ml which can be further diluted in aqueous solutions as needed. Addition of a carrier protein (0.1% HSA or BSA) is recommended for long-term storage.

Background References:

(1) Dong, J. et al. (2002) *Cancer Biol Ther* 1, 486-9.

(2) Wodnar-Filipowicz, A. (2003) *News Physiol Sci* 18, 247-51.

(3) Onai, N. et al. (2006) *J Exp Med* 203, 227-38.

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