

Recombinant Human FLT3-Ligand

Catalog No.:	PA1021X
Quantity:	10 µg
Background:	FLT3 ligand is a receptor for the fl cytokine has a tyrosine-protein kinase activity & a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand synergizes with other CSFs and interleukins to induce growth and differentiation.
Species:	Human
Source:	E. coli, E.coli.
Format:	State: Sterile Filtered White lyophilized (freeze-dried) powder. Purity: >98% Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Buffer System: FLT-3 was lyophilized with no additives. Reconstitution: It is recommended to reconstitute the lyophilized Flt3-L in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Description:	Flt3-Ligand Human Recombinant produced in E.Coli is non-glycosylated, polypeptide chain containing 155 amino acids. Flt3-Ligand is purified by proprietary chromatographic techniques. AA Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Thr-Gln-Asp-Cys-Ser. Biological Activity: The ED50 range=0.5-1.0 ng/mL, calculated by the dose-dependant stimulation of the proliferation of human OCMI-AML5 cells. Molecular weight: 18 kDa 17605 Dalton.
Storage:	Lyophilized Flt3-Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution Flt3-Ligand 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 (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
General Readings:	<ol style="list-style-type: none">1. Chan SS, Lyons N, McConnell I, Blacklaws BA. Cloning and sequencing of ovine Flt3 ligand. <i>Int J Immunogenet.</i> 2007 Jun;34(3):167-71. PubMed PMID: 17504506.2. Harada S, Kimura T, Fujiki H, Nakagawa H, Ueda Y, Itoh T, et al. Flt3 ligand promotes myeloid dendritic cell differentiation of human hematopoietic progenitor cells: possible application for cancer immunotherapy. <i>Int J Oncol.</i> 2007 Jun;30(6):1461-8. PubMed PMID: 17487367.3. Crucial role of FLT3 ligand in immune reconstitution following bone marrow transplantation and high dose chemotherapy. <i>Blood</i> 2007 Mar 22;4. Wils EJ, Braakman E, Verjans GM, Rombouts EJ, Broers AE, Niesters HG, et al. Flt3 ligand expands lymphoid progenitors prior to recovery of thymopoiesis and accelerates T cell reconstitution after bone marrow transplantation. <i>J Immunol.</i> 2007 Mar 15;178(6):3551-7.

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5. Yoon WS, Choi WC, Sin JI, Park YK. Antitumor therapeutic effects of Salmonella typhimurium containing Flt3 Ligand expression plasmids in melanoma-bearing mouse. Biotechnol Lett. 2007 Apr;29(4):511-6. Epub 2007 Jan 19. PubMed PMID: 17235489.

6. Bharadwaj AS, Agrawal DK. Flt3 ligand generates morphologically distinct semimature dendritic cells in ovalbumin-sensitized mice. Exp Mol Pathol. 2007 Aug;83(1):17-24. Epub 2006 Dec 19. PubMed PMID: 17182033.