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Recombinant Human FLT3-Ligand

Catalog No.: PA1021XC

Quantity: 1 mg

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 18M Ω -cm H2O not less than 100 μ g/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: 1. Chan SS, Lyons N, McConnell I, Blacklaws BA. Cloning and sequencing of ovine Flt3

ligand. Int J Immunogenet. 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. Int J Oncol. 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. Blood 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. J Immunol. 2007 Mar 15;178(6):3551-7.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

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PubMed PMID: 17339451.

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.