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Flt3 Ligand Human

Description: Flt3-Ligand Human Recombinant produced in E.Coli is non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17605 Dalton. Flt3-Ligand is purified by proprietary chromatographic techniques.

Synonyms: Fms-related tyrosine kinase 3 ligand, FLK2, STK1, CD135, Stem Cell Tyrosine Kinase 1, FLT3LG, Flt3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Thr-Gln-Asp-Cys-Ser.

Purity: Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein was lyophilized with no additives.

Stability:
Lyophilized Flt3-Ligand althoμgh 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 prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Flt3-L in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
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.

Biological Activity:
The ED50 range=0.5-1.0 ng/ml corresponding to a specific activity of 1-2MUnits/mg, calculated by the dose-dependant stimulation of the proliferation of human OCMI-AML5 cells.

References:
1.Title:Identification of Y589 and Y599 in thejuxtamembrane domain of Flt3 as ligand-induced autophosphorylation sites involved in binding of Src family kinases and the protein tyrosine phosphatase SHP2.Publication:Published online before printMay 9, 2006, doi:10.1182/blood-2005-07-008896Submitted: July 14, 2005Accepted: April 26, 2006

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51542-1550.Link:http://bloodjournal.hematologylibrary.org/content/108/5/1542.full2. Title:A role of Gab2 association in Flt3 ITD mediated Stat5 phosphorylation and cell survival.Publication:Received 2 February 2009; accepted for publication 30 March 2009
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