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Recombinant Human FLT3 Factor rHu flt3-ligand

Product	Cat#	Package size
rec. human FLT3 factor	C4300.0002	2µg
rec. human FLT3 factor	C4300.0010	10µg
rec. human FLT3 factor	C4300.1000	1mg

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.

Product description

Rec. human Flt3-Ligand produced in *E.Coli* is a non-glycosylated polypeptide chain of 155 amino acids and a molecular mass of 17.6 kDa.

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

Source: *Escherichia coli*

Purity: Greater than 97% by SDS-PAGE and HPLC analysis.

Amino Acid Sequence

TQDCSFQHP ISSDFAVKIR ELSDYLLQDY PVTVASNLQD EELCGGLWRL VLAQRWMERL KTVAGSKMQG LLERVNTEIH
FVTKCAFQPP PSCLRFVQTN ISRLQETSE QLVALKPWIT RQNFSCRLEL QCQPDSSTLP PPWSPRPLEA TAPTA.

Biological activity

The ED50 as calculated by the dose-dependent stimulation of the proliferation of human AML5 cells is less than 1.0ng/mL, corresponding to a specific activity of 1.0×10E6 IU/mg.

Formulation

The sterile filtered solution was lyophilised from a concentrated (1mg/mL) sterile solution without additives.

Stability

Lyophilized Flt3-Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution Flt3-Ligand should be stored at 4°C between 2-7 days and for future use below -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles!

Reconstitution

It is recommended to reconstitute the lyophilized rHuflt3 in sterile, deionised water at 0.1mg/mL, which can then be further diluted to other aqueous solutions.

Usage

The Genaxxon rHuflt3 is offered for research, laboratory or further manufacturing purposes only. The product may not be used as drug, agricultural or pesticidal product, food additive or household chemical.