

Datasheet

Flt3-Ligand

Human Recombinant

Product	Description	Catalogue-No.	Size
Flt3-Ligand	Fms-related tyrosine kinase 3 ligand, human recombinant	CB-1119000 CB-1119001	2 µg 10 µg

Product description

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

FLT3-Ligand is a receptor for the fl cytokine, has a tyrosine-protein kinase activity, and is a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand synergizes with other CSFs and interleukins to induce growth and differentiation.

Flt3-Ligand human rec. produced in E.Coli is a non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of approximately 17.6kDa. Flt3-Ligand is purified by proprietary chromatographic techniques.

Solubility and storage conditions

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

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 2-8°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 freeze-thaw cycles.

Composition

Lyophilized with no additives

Purity: > 97.0% as determined by SDS-PAGE and RP-HPLC

Amino acid sequence: TQDCSFQHSPT ISSDFAVKIR ELSDYLLQDY PVTVASNLQD EELCGGLWRL VLAQRWMERL KTVAGSKMQG LLERVNTEIH FVTKCAFQPP PSCLRFVQTN ISRLLQETSE QLVALKPWIT RQNFSRCLEL QCQPDSSTLP PPWSPRPLEA TAPTA.

Biological activity: The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human AML5 cells is less than 1.0ng/ml, corresponding to a specific Activity of 1.0×10⁶ Unit per mg.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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