

Flt3 Ligand Human, HEK

Description: Flt3-Ligand Human Recombinant produced in HEK293 cells is a glycosylated, polypeptide chain, migrates as a diffuse band on SDS-PAGE due to heterogeneous glycosylation at 30kDa. Flt3-Ligand is purified by proprietary chromatographic techniques.

Catalog #: CYPs-713

For research use only.

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

Source: HEK293 (Human Embryonic Kidney cell line).

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

Amino Acid Sequence: TQDCSFQHSP ISSDFAVKIR ELSDYLLQDY PVTVASNLQD
EELCGGLWRL VLAQRWMERL KTVAGSKMQG LLERVNTEIH FVTKCAFQPP PSCLRFVQTN
ISRLLQETSE QLVALKPWIT RQNFSCRLEL QCQPDSTLP PPWSPRPLEA TAPTAPQP.

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 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 prevent freeze-thaw cycles.

Usage:

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

Solubility:

It is recommended to reconstitute the lyophilized Flt3-Ligand 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 as determined by the dose dependent proliferation of human OCI-AML5 cells is 0.5 to 1.0 ng/ml (Specific Activity: 2.0 x 1,000,000 1.0 x 1,000,000 units/mg).

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