



Recombinant Rat Flt-3 Ligand

20230201DS



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	R20-076
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	140635
Synonyms:	Fms-related tyrosine kinase 3 ligand, Flt3L

Flt3-Ligand is a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand binds to cells expressing the tyrosine kinase receptor Flt3. Flt3-Ligand, by itself does not stimulate proliferation of early hematopoietic cells, but synergizes with other CSFs and interleukins to induce growth and differentiation. Unlike SCF, Flt3-Ligand exerts no activity on mast cells. Multiple isoforms of Flt3-Ligand have been identified. The predominant biologically active form is anchored to the cell surface as the extracellular domain of a transmembrane protein (209 a.a.). The membrane-bound isoform can be proteolytically cleaved to generate a biologically active soluble isoform. Recombinant Rat Flt3-Ligand is a soluble 18.3 kDa protein consisting of 162 amino acid residues.

Sequence

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TPDCYFSHSP ISSNFHMRIS ELTDYLLKDY PVTVAINLQD
EKHKALWSL FLAHRWIEQL KTVAGSKMQK LLEDVNTTEIH
FVTSCTFQPL PECLRFVQTN ISHLLQDTC S QLLALKPCIG
KACQNF SRCL EVQCQPDSS LPPPEPGAL GATELPKPLP RQ
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Database References

Protein RefSeq:	NP_001094292.1
Uniprot ID:	Reviewed Data Unavailable
mRNA RefSeq:	NM_001100822.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	162
MW:	18.3 kDa



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of human AML5 cells.