

FLT3 Ligand Recombinant Protein | FLT3 recombinant protein

Human FLT3 Ligand Recombinant

CATALOG #	HOST
AAA76073	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

FLT3 Ligand; Human FLT3 Ligand Recombinant; flt3lg; flt3 ligand; flt-3l; FLT3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>97%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant FLT-3 Ligand was lyophilized from a 0.2 um filtered PBS solution pH 7.0.
Sequence	MTVLAPAWSP TTYLLLLLLL SGLSGTQDC SFQHSPSSD FAVKIRELSD YLLQDYPVTV ASNLQDEELC GGLWRLVLAQ RWMERLKTVA GSKMQGLLER VNTEIHVTK CAFQPPPSCL RFVQTNISRL LQETSEQLVA LKPWITRQNF SRCLELQCQP DSSTLPPWS PRPLEATAPT APQPPLLLLL LLPVGLLLLA AAWCLHWQRT RRRTPRPGEQ VPPVPSPQDL LLVEH
Sequence Length	235
Domain	four helix cytokine core
Host Note	Optimized DNA sequence encoding Human FLT-3 Ligand mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Molecular Weight Note	Native human FLT3 Ligand is generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated molecular mass of approximately 17 kDa. Recombinant FLT-3 Ligand is a disulfide-linked monomeric protein consisting of 156 amino acid residue subunits, and migrates as an approximately 17 kDa protein under non-reducing conditions and reducing conditions in SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FLT3 recombinant protein	FLT-3 ligand promotes long- term expansion and differentiation of human pro-B-cells in the presence of IL7 or in combination of IL7 and IL3. The human flt-3 ligand also stimulates the proliferation of cells expressing murine flt-3 receptors. In combination with SCF and IL3 flt-3 ligand can cause expansion of cells with the marker spectrum CD34 (+) CD38 (-). Alone, flt- 3 ligand supports the survival of precursors in the lineage of blood-forming cells such as CFU-GM, CFU- GEMM, and the very primitive high proliferative potential colony-forming cells, HPP- CFC. flt-3 ligand only has marginal effects on progenitors for erythroid cells and megakaryocytes.
Product Categories/Family for FLT3 recombinant protein	Cytokines

References	• tumor vaccines expressing FLT3 Ligand synergize with ctla-4 blockade to reject preimplanted tumors .<i>Cancer Res.</i>, Sep 2009; 10.1158/0008-5472.CAN-08-3289. • <i>the concerted action of gm-csf and flt3-ligand on in vivo dendritic cell homeostasis</i> .<i>Blood</i>, Jul 2009; 114: 835 - 843. • <i>ectodomain shedding of FLT3 Ligand is mediated by tnfr- converting enzyme</i> .<i>J. Immunol.</i>, Jun 2009; 182: 7408 - 7414. • <i>transplanted cd34+ cells stimulated with FLT3 Ligand and granulocyte-colony stimulating factor display an impaired early reconstitution capacity</i> .<i>Blood (ASH Annual Meeting Abstracts)</i>, Nov 2008; 112: 4591. • <i>hematopoietic stem - and progenitor cells are differentially mobilized in response to flt3-ligand</i> .<i>Blood (ASH Annual Meeting Abstracts)</i>, Nov 2008; 112: 4782.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	325197197
NCBI GeneID	2323
NCBI Accession #	NP_001191431.1
NCBI GenBank Nucleotide #	NM_001204502.1
UniProt Accession #	P49771; A0AVC2; B9EGH2; Q05C96
Molecular Weight	26,416 Da
NCBI Official Full Name	fms-related tyrosine kinase 3 ligand
UniProt Protein Name	Fms-related tyrosine kinase 3 ligand
UniProt Gene Name	FLT3LG
UniProt Synonym Gene Names	Flt3 ligand; Flt3L
UniProt Entry Name	FLT3L_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/flt3lg-recombinant-protein-e-coli/76073>