

Active Recombinant *Macaca mulatta* FLT3 Ligand

Cat. No. FLT3-1229M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Macaca mulatta</i> FLT3 Ligand is a single, non-glycosylated polypeptide chain containing 159 amino acids.
Species	<i>Macaca mulatta</i>
Source	E.coli
Protein Length	159aa
Description	<p>FLT3 is a recently identified hematopoietic cytokine whose activities are mediated by binding to the transmembrane glycoprotein FLT3. FLT3 was first discovered as a member of the class III subfamily of receptor tyrosine kinases (RTK) whose expression among hematopoietic cells was found to be restricted to highly enriched stem/progenitor cell populations. Additional class III RTKs include the receptors from SCF, M-CSF and PDGF. Not surprisingly, FLT3 is also structurally related to M-CSF and SCF. All three cytokines have been shown to exist both as type I transmembrane proteins and as soluble proteins.</p>
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	The ED ₅₀ as calculated by the dose-dependent stimulation of the proliferation of human AML5 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1.0 × 10 ⁶ IU/mg.
Molecular Mass	18.0 kDa

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AA Sequence	TQDCSFQHSPISSDFAVKIR ELSDYLLQDY PVTVPSNLQD EELCGALWRL VLAQRWMERL KTVAGSKMQG LLERVNTEIHFVTKCAFQHP PSCLRFVQTN ISRLLQETSE QLVALKPWIT RQNFSRCLEL QCQPDSSTLP PPRSPGALEATALTAPQRP
Endotoxin	< 0.1 ng/ug of protein
Purity	> 97% by SDS-PAGE and HPLC analyses
Storage	The lyophilized protein is stable at 2-4oC, but should be kept desiccated at -20oC for long term storage. After reconstitution, the protein is stable for 1 week at 2-4oC. For long term storage, aliquot and freeze at -80oC. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	FLT3LG
Synonyms	FLT3LG, fms-related tyrosine kinase 3 ligand, FLT3L, Flt3 ligand
Gene ID	719239
mRNA Refseq	XM_001113150.2
Protein Refseq	XP_001113150.2
Chromosome Location	19
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem.

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