

Recombinant Human Fms-Related Tyrosine Kinase 3 Ligand, His-tagged

Cat. No. FLT3LG-5423H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FLT3LG contains 155 amino acids and a 14 amino acid Histidine-based tag for a total length of 169 amino acids. The predicted molecular weight of the recombinant FLT3LG is 19.9kDa, but the recombinant protein migrates as two bands with an apparent molecular mass of 20 and 22 kDa in SDS-PAGE as a result of glycosylation.
Species	Human
Source	Hordeum Vulgare
Description	FLT3LG is a protein which in humans is encoded by the FLT3LG gene. FLT3LG is a hematopoietic four helical bundle cytokine. It is structurally homologous to stem cell factor (SCF) and colony stimulating factor 1 (CSF-1). In synergy with other growth factors, FLT3LG stimulates the proliferation and differentiation of various blood cell progenitors.
Form	Lyophilized from a 0.2 µm sterile filtered solution in 10 mM acetic acid, pH 5.0.
Molecular Weight	20 and 22 kDa
Purity	> 98% as determined by SDS-PAGE analysis. Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.

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EndotoxinLevel	< 0.005 ng/ug of FLT3LG
BiologicalActivity	Determined by CellProliferation Assay for the dose-dependent effects of serial dilutions of recombinant human FLT3LG on AML5 cells. The ED50 is typically in the range of 0.9-1.4 ng/ml.
SpecificActivity	1.11 x 10 ⁶ units/mg
Reconstitution	Centrifuge vial prior to opening. Add sterile PBS to the vial to fully solubilize the protein to a concentration of 10 ug/ml.
Storage	Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.
OfficialSymbol	FLT3LG

GENE INFORMATION

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [Homo sapiens]
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; FL; FLT3L; flt3 ligand; SL cytokine; Flt3L
Gene ID	2323
mRNA Refseq	NM_001459
Protein Refseq	NP_001450

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MIM	600007
UniProt ID	P49771
Chromosome Location	19q13.3
Pathway	Cytokine-cytokine receptorinteraction; Hematopoietic cell lineage; Pathways in cancer
Function	cytokine activity; receptor binding
PDB rendering basedon 1ete.	

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