

Recombinant Human Fms-Related Tyrosine Kinase 3

Cat. No. FLT3-1226H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FLT3 Ligand contains 155 amino acids and a 14 amino acid Histidine-based tag for a total length of 169 amino acids.
Species	Human
Source	Hordeum Vulgare
Description	The predicted molecular weight of the recombinant FLT3 Ligand is 19.9 kDa, but the recombinant protein migrates as two bands with an apparent MW 20 and 22 kDa in SDS-PAGE as a result of glycosylation.
Molecular Weight	20 and 22 kDa
Form	Lyophilized from a 0.2 µ sterile filtered solution in 10 mM acetic acid, pH 5.0.
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.
Endotoxin Level	< 0.005 ng/g of FLT3 Ligand
Biological Activity	Determined by Cell Proliferation Assay for the dose-dependent effects of serial dilutions of recombinant human FLT3 Ligand on AML5 cells. The ED50 is typically in the range of 0.9-1.4 ng/ml.

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Specific Activity	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 µg/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.

GENE INFORMATION

Gene Name	FLT3 fms-related tyrosine kinase 3 [Homosapiens]
Official Symbol	FLT3
Synonyms	FLT3; fms-related tyrosine kinase 3; FLK2; STK1; CD135; CD135 antigen; fetal liver kinase 2; FL cytokine receptor; tal liver kinase 2; stem cell tyrosine kinase 1; FLT3 receptor tyrosine kinase; tyrosine-protein kinase receptor FLT3; growth factor receptor tyrosine kinase type III; C 2.7.10.1; OTTHUMP00000042340; fetal liver kinase 2
Gene ID	2322
mRNA Refseq	NM_004119
Protein Refseq	NP_004110
MIM	136351
UniProt ID	P36888

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Chromosome Location	13q12
Pathway	Acute myeloidleukemia; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage;Pathways in cancer
Function	ATP binding; nucleotidebinding; osphoinositide 3-kinase binding; protein binding; receptor activity;transferase activity; vascular endothelial growth factor receptor activity

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