Active Recombinant Human FLT3L protein

Cat. No. FLT3LG-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3L (27–181 of P49771-1 FLT3L_HUMAN) protein expressed in Nicotiana benthamiana. It is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal–derived components or impurities.
Species	Human
Source	Nicotiana Benthamiana
ProteinLength	28-181 a.a.
Form	Lyophilized from a Tris HCl 0.05M buffer pH 7.4.
Bio-activity	The activity of Flt-3 is determinated by the dose-dependent stimulation of the proliferation of human acute myeloid leukemia cells (OCMI-AML5). ED50 is typically ≤ 1 ng/ml.
Molecular Mass	It has a predicted molecular mass of 18.4 kDa, however as result of potential glycosylation, the recombinant protein could migrate with an apparent molecular mass of 18-25 kDa in SDS-PAGE.
AA Sequence	HHHHHHTQDCSFQHSPISSDFAVKIRELSDYLLQDYPVTVASNLQDEELCGGLWRL VLAQRWMERLKTVAGSKMQ GLLERVNTEIHFVTKCAFQPPPSCLRFVQTNISRLLQ ETSEQLVALKPWITRQNFSRCLELQCQPDSSTLPPPWS PRPLEATAPTA

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Endotoxin	1 EU/μg determined by LAL method
Purity	>95 % as determined by SDS-PAGE analysis
Applications	BIOASSAY, SDS-PAGE, WB.
Storage	Frozen / Solution. For extended storage, conserve at −80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Reconstitution	Lyophilized protein should be reconstituted in water to a concentration of 50 ng/μl. Optimal concentration should be determined for specific application and cell lines.

GENE INFORMATION

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [Homo sapiens]
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; FL; Flt3 ligand
Gene ID	2323
mRNA Refseq	NM_001459
Protein Refseq	NP_001450
MIM	600007
UniProt ID	P49771
Chromosome Location	19q13.3

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Pathway	Cytokine-cytokine receptor interaction; atopoietic cell lineage; Pathways in cancer
Function	cytokine activity; protein homodimerization activity; receptor tyrosine kinase binding

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