

Active Recombinant Human Fms-related Tyrosine Kinase 3, Fc Chimera

Cat. No. FLT3-140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human fms-related tyrosine kinase 3 encoding the signal peptide and extracellular domain of human Flt-3 (aa 1-540) was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified human 293 cells.
Species	Human
Source	HEK293
ProteinLength	1-540 a.a.
Description	Fms-like tyrosine kinase 3 (Flt-3) and its cognate ligand, Flt-3 Ligand (Flt-3L), are essential growth factors involved in the survival and differentiation of hematopoietic progenitor and stem cells, specifically the development of NK cells, pre-B and pre-T cells, monocytes/macrophages and dendritic cells.
Amino Acid Sequence	NQDLPIKCVLINHKNNDSVVGKSSSYPMVSESPEDLGALRPQSSGTVYEEAAVE VDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAG EYLLFIQSEATNYTILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLC DSQGESCKEESPAVVKKEEKVLHELFGTDIRCCARNELGRECTRLFTIDLNQTPQTT LPQLFLKVGEPWIRCKAVHVNHGFGLTWELENKALEEGNYFEMSTYSTNRTMIRIL FAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGFINATNSSDYEDQYEEFCFSV RFKAYPQIRCTWTFSRKSFPCEQKGLDNGYSISKFCNHKHQPGYIFHAENDDAQF TKMFTLNIRRKPVLAEEASASQASCFSDGYPLPSWTWKKCSKSPNCTEEITEGVW

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NRKANRKVFGQWVSSSTLNMSEAIKGFVKCCAYNSLGTSCETILLNSPGPFFFIQD
RIPKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVWV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY
KCRVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI
AVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEAL
HNHYTQKSLSLSPGK.

Molecular Mass	Flt-3-Fc Chimera migrates as a broad band between 100 and 130 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation.
pI	Flt-3-Fc Chimera separates into a number of isoforms with a pI between 5.1 and 6.8 in 2D PAGE due to post-translational modifications, in particular glycosylation.
% Carbohydrate	Purified Flt-3-Fc Chimera consists of 15-35% carbohydrate by weight.
Glycosylation	Flt-3-Fc Chimera has N-linked and O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.
Activity	The ED50 of Flt-3-Fc Chimera is typically 1.0 -2.0 ng/ml as measured by its ability to

neutralize Flt-3 mediated proliferation of the OCI/AML5 human leukemia cell line.

GENE INFORMATION

Gene Name	FLT3 fms-related tyrosine kinase 3 [Homo sapiens]
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
UniProt ID	P36888
Chromosome Location	13q12
MIM	136351
Pathway	ute myeloid leukemia; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Pathways in cancer
Function	ATP binding; nucleotide binding; osphoinositide 3-kinase binding; protein binding; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

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