

## Recombinant Mouse Flt-3 Ligand/FLT3L (His, Flag)

### Information

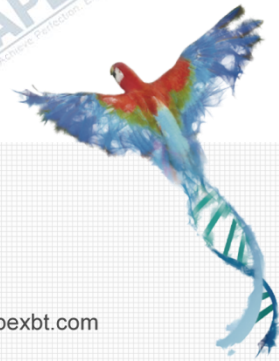
Gene ID	14256
Accession #	P49772
Alternate Names	Fms-related tyrosine kinase 3 ligand, Flt3 ligand, Flt3L, SL cytokine
Source	HEK293
Protein sequence	GTPDCYFSHSPISSNFKVKFRELDHLLKDYPVTVAVNLQDEKHCKALWSLFLAQRWIEQLKTVAGSKMQTLL EDVNTIHFVTSCFTFQPLPECLRFVQTNISHLLKDTCTQLLALKPCIGKACQNF SRCLEVQCQPDSSTLLPPRS PIALEATELPEPRPRQ
Tag	C-His & C-Flag
M.Wt	The protein has a calculated MW of 20.6 KDa.
Appearance	Solution protein
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 36 months from date of receipt, -20 to -70°C as supplied
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a cell proliferation assay using BaF3 mouse pro-B cells transfected with human Flt-3. The EC50 for this effect is 0.1-1 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

### Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

### Description

Mouse Fms-related tyrosine kinase 3 ligand (Flt3 ligand or Flt3L, also known as SL cytokine and CD135L) is a single-pass type I membrane protein encoded by the Flt3lg gene. Structurally, its core domain consists of a four-helical cytokine core. As a key hematopoietic regulator, Flt3 ligand primarily functions by activating its receptor FLT3 and synergizing with other cytokines (such as GM-CSF, G-CSF, and IL-3) to stimulate the proliferation and differentiation of early hematopoietic progenitor cells, with particularly crucial roles in the development of lymphoid progenitors, natural killer cells, B cells, and dendritic cells. Consequently, this recombinant protein is widely used in cell culture research, for example, to expand hematopoietic progenitor cells or induce dendritic cells, thereby supporting studies in immunology and cancer immunotherapy.



**APEx BIO Technology**

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)