

Recombinant Human FLT3 Ligand (FLT3LG)

Cat No:HR2R1427

For research use only

Overview

Quantity	10 ?g
Gene Symbol	FLT3LG
Gene ID	2323
Accession	P49771
Alternative Name	Fms-related tyrosine kinase 3 ligand, FLT3 ligand, FLT3LG, FLT3L
Species	Human
Source	E. coli
Description	Known to bind to cells that express the tyrosine kinase receptor, FLT3LG promotes long-term expansion and differentiation of human pro-B cells. Human FLT3LG also stimulates the proliferation of cells expressing murine FLT-3 receptors. In combination with SCF and IL3, FLT3LG can cause expansion of cells with the marker spectrum CD34(+)/CD38(-). Alone, FLT3LG supports the survival of precursors in the lineage of blood-forming cells such as CFU-GM, CFU-GEMM, and the very primitive high proliferative potential colony-forming cells, HPP-CFC. FLT3LG has only marginal effects on progenitors for erythroid cells and megakaryocytes. Recombinant Human FLT3LG is a non-glycosylated, monomeric protein with intra-chain disulfide bonds.
Functions	The ED50 as determined by the dose-dependent stimulation of the proliferation of Human AML5 cells was found to be in the range of 1.0 ng/mL
Formulation	Lyophilized from a 0.2 ?m filtered PBS solution pH 7.0
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	17.8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.