Recombinant Human FLT-3/FLK-2 Protein (Fc Tag)

Catalog No. PKSH033543

Note: Centrifuge before opening to ensure complete recovery of vial contents.

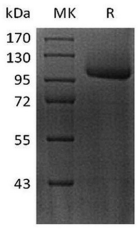
Description

Synonyms	Receptor-Type Tyrosine-Protein Kinase FLT3;FL Cytokine Receptor;Fetal Liver Kinase-2;FLK-2;Fms-Like Tyrosine Kinase 3;FLT-3;Stem Cell Tyrosine Kinase 1;STK-1;CD135;FLT3;FLK2;STK1
Species	Human
Expression Host	HEK293 Cells
Sequence	Asn27-Asn541
Accession	AAI26351.1
Calculated Molecular Weight	85.3 kDa
Observed molecular weight	120 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

The Flt-3 (fms-like tyrosine kinase) receptor, also named Flk-2and Stk-1is a member of the class III subfamily of receptor tyrosine kinases that also includes KIT, the receptor for SCF and FMS, the receptor for M-CSF. The extracellular region of these receptors contains five immunoglobulin-like domains and the intracellular region contains a split kinase domain. Human Flt-3 cDNA encodes a 993 amino acid (aa) residue type I membrane protein with a 26 aa

residue signal peptide, a 515 aa extracellular domain with 10 potential N-linked glycosylation sites, a 21 aa residue transmembrane domain and a 431 aa residue cytoplasmic domain. Flt-3 expression has been detected in various tissues, including placenta, gonads, and tissues of nervous and hematopoietic origin. Among hematopoietic cells, the expression of Flt-3 was found to be restricted to the highly enriched stem/progenitor cell populations. The ligand for Flt-3 (FL) has been identified to be a transmembrane protein with structural homology to M-CSF and SCF. Recombinant soluble Flt-3/Fc chimeric protein has been shown to bind FL with high affinity and is a potent FL antagonist.

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