



Recombinant Protein Technical Manual

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

RPES0085

Product Data:

Product SKU: RPES0085

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P36888

Protein Information:

Molecular Mass: 85.3 kDa

AP Molecular Mass: 120 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 lyophilized powder which is shipped with ice packs.

Formulation: Supplied as a 0.2 µm filtered solution of PBS, PH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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; CD135; FLT3; FLK2; STK1

Immunogen Information:

Sequence: Asn27-Asn541(Thr227Met)

Background:

The Flt-3 (fms-like tyrosine kinase) receptor, also named Flk-2 and Stk1, is 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.