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FLT4 Human

Catalog #:PKPS-251

For research use only.

Description: Soluble FLT4 Human Recombinant fused with a carboxy-terminal 6X histidine-tag produced in baculovirus is a monomeric, glycosylated, polypeptide containing the extracellular part, 25-774 amino acids and having a total molecular mass of 120 kDa. The soluble receptor protein contains only the first 7 extracellular domains, which contain all the information necessary for ligand binding.The FLT4 is purified by proprietary chromatographic techniques.

Synonyms: Tyrosine-protein kinase receptor FLT4, PCL, FLT41, FMS-LIKE TYROSINE KINASE 4, VEGFR-3, VEGFR3.

Source: Insect Cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 90.0% as determined by(a)Analysis by RP-HPLC.(b)Analysis by SDS-PAGE.

Formulation:
FLT4 was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.

Stability:
Lyophilized FLT4 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FLT4 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized FLT4 in sterile water not less than 100

Introduction:
All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterised by the seven immunoglobulin-like loops in the extracellular domain. The expression of VEGFR-1 to -3 is almost exclusively restricted to hematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The FLT-4 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide. Mature VEGFR-3/FLT-4 is composed of a 751 aa residue extracellular domain, a 22 aa transmembrane domain and a 482 aa residue cytoplasmic domain. Both VEGF family members VEGF-C and VEGF-D have been shown to bind and activate VEGFR-3/FLT-4. The Flt-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial a latter stages of development. It is important for lymphangiogenesis.

Biological Activity:
Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilised recombinant human VEGFR-3/FLT-4 at 5

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