

VEGFR2/KDR Protein, Mouse, Recombinant (aa 192-761, hFc)

General Information

Synonyms:	VEGFR;VEGFR2;CD309;KDR;FLK1
Protein Construction:	Met192-Glu761
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P35918
Molecular Weight:	~153.5 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Mouse VEGF164 at 2.0 µg/ml (100 µl/well) can bind VEGF-R2, hFc, Mouse with EC 50 =96.15 ng/ml when detected by Mouse Anti Human IgG Fc-HRP.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

VEGF-R2 belongs to a family of proteins called receptor tyrosine kinases. The receptor has three main parts: one part extends out of the cell and binds to VEGF, another spans the cell's membrane, while the third part is found inside the cell. The current model of VEGF-R2 activation is that VEGF binds to individual VEGF-R2 receptor proteins on the membrane, and brings two of them close enough to form a complex called a dimer. The receptor dimer is activated and initiates signaling within the cell. VEGF-R2 is a receptor tyrosine kinase (RTK) which transduces biochemical signals via lateral dimerization in the plasma membrane. Like most RTKs, VEGF-R2 is composed of an extracellular (EC) domain, a transmembrane (TM) domain, and an intracellular (IC) domain consisting of a kinase

A DRUG SCREENING EXPERT

domain and sequences required for downstream signaling. The EC domain consists of seven immunoglobulin homology (Ig) domains, termed D1 (at the N-terminus) to D7 (closest to the membrane). VEGF-R2 binds to, and is activated by the ligands VEGF-A, VEGF-E, and a number of processed forms of VEGF-C and VEGF-D. Ligand binding to VEGF-R2 is mediated by Ig-domains 2 and 3 and the linker between D2 and D3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481