

Human VEGFR2, His Tag, HEK293

Catalog Number LDG042PHM

Package 5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Affinity Tag

His Tag (C-term)

Purity

>95% as determined by SDS-PAGE analysis.

Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

Expression System

HEK293

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Molecular weight

The protein has a calculated MW of 87.08 kDa. The protein migrates as 120-160 kDa under reducing condition (SDS-PAGE analysis).

Form

Lyophilized

Background

Tainan Headquarter

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Background

Human Vascular Endothelial Growth Factor Receptor 2 (VEGFR2), also known as KDR (Kinase Insert Domain Receptor), is a transmembrane receptor protein primarily expressed on endothelial cells. It plays a central role in angiogenesis, the process by which new blood vessels are formed from existing ones. VEGFR2 is activated by binding to its ligands, primarily Vascular Endothelial Growth Factors (VEGFs), initiating signaling cascades that promote endothelial cell proliferation, migration, and survival. This pivotal role in angiogenesis makes VEGFR2 a critical target in various pathological conditions, including cancer, diabetic retinopathy, and age-related macular degeneration. In cancer, overexpression of VEGFR2 is associated with tumor growth, metastasis, and poor prognosis. Consequently, VEGFR2 inhibitors, such as monoclonal antibodies and small molecule tyrosine kinase inhibitors, have been developed as anti-angiogenic therapies to suppress tumor vascularization and inhibit disease progression. Understanding the intricate mechanisms of VEGFR2 signaling offers opportunities for the development of targeted therapies and personalized medicine strategies in angiogenesis-related disorders.

Sequence Note

Met1-Glu764

Synonyms

Vascular endothelial growth factor receptor 2, Fetal liver kinase 1 (FLK-1), Kinase insert domain receptor (KDR), Protein-tyrosine kinase receptor flk-1, CD309

Instruction

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Reconstitution

It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

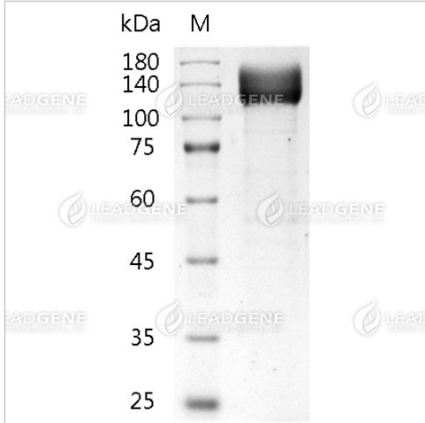
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image



SDS-PAGE analysis of recombinant human VEGFR2.

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