

Human VEGFR1/FLT-1 (His Tag) recombinant protein



Catalog Number: 503212

General Information

Protein Construction

A DNA sequence encoding the human VEGFR1 (P17948-1) extracellular domain (Met 1-Asn 756) was expressed, fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC) (Conn, G. et al., 1990, Proc. Natl. Acad. Sci. USA 87:1323.). The ED₅₀ for this effect is typically 10-40 ng/mL in the presence of 10 ng/mL human VEGF165.

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ser 27

Molecular Mass

The secreted recombinant human VEGFR1 consists of 741 amino acids with the predicted molecular mass of 83.7 kDa. As a result of glycosylation, rhVEGFR1 migrates as an approximately 110-120 kDa band in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

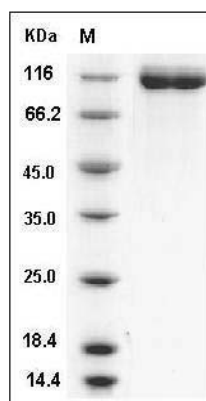
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human VEGFR1 / FLT-1 Protein (His Tag) SDS-PAGE