

Mouse VEGFR3 / FLT-4 Protein (His Tag)

Catalog Number: 50584-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

AI323512; Chy; Flt-4; VEGFR-3; VEGFR3

Protein Construction:

A DNA sequence encoding the mouse FLT4 (P35917-1) extracellular domain (Met 1-Glu 775) was expressed, with a polyhistidine tag at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 97 % as determined by SDS-PAGE ≥ 90 % as determined by SEC-HPLC.

Bio Activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized mouse VEGFR3-His (Cat:50584-M08H) at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC₅₀ of mouse Fc-VEGFD is 44 ng/mL.

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: Tyr 25

Molecular Mass:

The secreted recombinant mouse FLT4 consists of 762 amino acids and has a predicted molecular mass of 86.4 kDa. The apparent molecular mass of rm FLT4 is approximately 95-105 kDa due to glycosylation in non-reduced SDS-PAGE.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

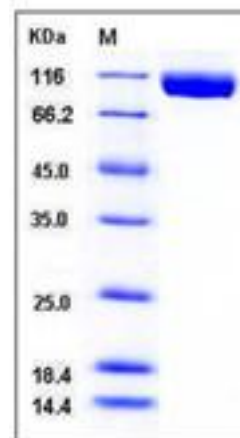
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Vascular endothelial growth factor receptor 3 (VEGFR3), also known as FLT-4, together with the other two members VEGFR1 (FLT-1) and VEGFR2 (KDR/Flk-1) are receptors for vascular endothelial growth factors (VEGF) and belong to the class III subfamily of receptor tyrosine kinases (RTKs). The VEGFR3 protein is expressed mainly on lymphatic vessels but it is also up-regulated in tumor angiogenesis. Mutations in VEGFR3 have been identified in patients with primary lymphoedema. The VEGF-C/VEGF-D/VEGFR3 signaling pathway may provide a target for antilymphangiogenic therapy in prostate cancer, breast cancer, gastric cancer, lung cancer, non-small cell lung cancer (NSCLC), and so on.

References

1. Shushanov S, et al. (2000) VEGF₁₂₁ and VEGFR3 expression in human thyroid pathologies. *Int J Cancer*. 86(1): 47-52.
2. Iljin K, et al. (2001) VEGFR3 gene structure, regulatory region, and sequence polymorphisms. *FASEB J*. 15(6): 1028-36.
3. Liu XE, et al. (2004) Expression and significance of VEGF-C and FLT-4 in gastric cancer. *World J Gastroenterol*. 10(3): 352-5.

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