

Mouse VEGF R3/FLT4 Protein

Cat. No. VGF-MM2R3

Description

Source	Recombinant Mouse VEGF R3/FLT4 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Tyr25-Glu775.
Accession	P35917
Molecular Weight	The protein has a predicted MW of 111.69 kDa. Due to glycosylation, the protein migrates to 115-160 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

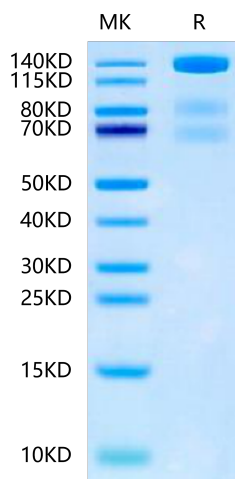
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Vascular endothelial growth factor (VEGF) and its receptors VEGF-R1, -R2 and -R3 play important roles in tumor angiogenesis and are associated with poor prognosis in several solid tumors. VEGF-R1, -R2 and -R3 were highly expressed in CRC cells and stromal vessels. VEGF-R1 strong positive staining correlated with shorter survival after CRC surgery.

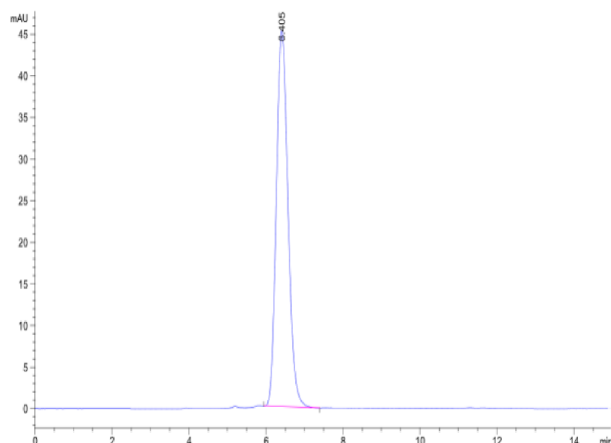
Assay Data

Tris-Bis PAGE



Mouse VEGF R3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



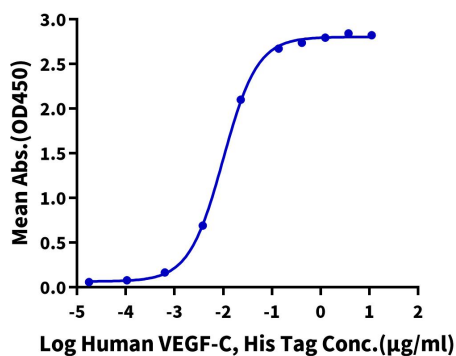
The purity of Mouse VEGF R3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

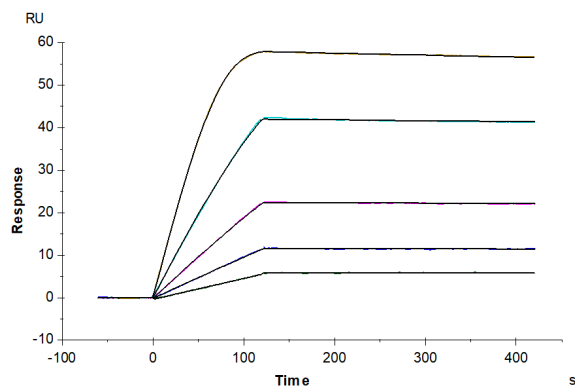
Mouse VEGF R3, hFc Tag ELISA

0.1µg Mouse VEGF R3, hFc Tag Per Well



Immobilized Mouse VEGF R3, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF-C, His Tag with the EC50 of 10.0ng/ml determined by ELISA (QC Test).

SPR Data



Mouse VEGF R3, hFc Tag captured on CM5 Chip via Protein A can bind Human VEGF-C, His Tag with an affinity constant of 12.93 pM as determined in SPR assay (Biacore T200).