

## Recombinant Mouse Flt4 protein, His/S-tagged

Cat. No. Flt4-239M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Flt4 fused with His/S tag was expressed in E. coli.

**Species** Mouse

**Source** E.coli

**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/FIk-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.

**Form** Lyophilized from sterile PBS, pH 7.4

**Purity** > 95 % as determined by SDS-PAGE

**Storage** Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

### GENE INFORMATION

**Gene Name** Flt4 FMS-like tyrosine kinase 4 [ *Mus musculus* ]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|--|
| <b>Official Symbol</b>     | <a href="#">Flt4</a>   |
| <b>Synonyms</b>            | FLT4; FMS-like tyrosine kinase 4; vascular endothelial growth factor receptor 3; chylous ascites; receptor protein tyrosine kinase; tyrosine-protein kinase receptor FLT4; vascular endothelial growth factor receptor-3; Chy; Flt-4; VEGFR3; VEGFR-3; AI323512;   |
| <b>Gene ID</b>             | <a href="#">14257</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_008029</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_032055</a>  |
| <b>UniProt ID</b>          | <a href="#">P35917</a>   |
| <b>Chromosome Location</b> | 11 B1.2; 11 29.69 cM   |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by VEGF, organism-specific biosystem; VEGF binds to VEGFR leading to receptor dimerization, organism-specific biosystem;   |
| <b>Function</b>            | ATP binding; growth factor binding; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein phosphatase binding; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity; vascular endothelial growth factor-activated receptor activity; |

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