

# Active Recombinant Mouse Kdr Protein, Fc/His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** Kdr-1786MAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Alexa Fluor 555 conjugated recombinant mouse VEGFR2 encoding amino acid residues 1-762 of the extracellular domain was fused to the 6X his-tagged Fc of human IgG1 via the peptide (IEGRMD). The chimeric protein was expressed in NSO cells.  |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | Mammalian Cells  |
| <b>ProteinLength</b>    | 1-762 a.a.   |
| <b>Description</b>      | Vascular endothelial growth factor receptor 2 (VEGF R2) is a transmembrane glycoprotein that is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration, and differentiation. |
| <b>Form</b>             | Lyophilized  |
| <b>Bio-activity</b>     | The biological activity of Mouse VEGFR2 was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells. The expected ED50 for this effect is typically 10-30 ng/mL in the presence of 5 ng/mL of rmVEGF.  |
| <b>Molecular Mass</b>   | 166-191 kDa  |

 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

|                       |  |
|-----------------------|--|
| <b>Endotoxin</b>      | < 1.0 EU/ µg as determined by the LAL method   |
| <b>Purity</b>         | > 90 % by SDS-PAGE and analyzed by silver stain  |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 555 via amines<br>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.                                      |
| <b>Stability</b>      | This lyophilized protein is stable for 6 to 12 months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. |
| <b>Storage</b>        | This lyophilized protein is stable for six to twelve months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer.                              |
| <b>Storage Buffer</b> | This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1 × PBS) pH 7.2-7.3 with no calcium, magnesium, or preservatives.   |
| <b>Conjugation</b>    | Alexa Fluor 555  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">Kdr kinase insert domain protein receptor [ Mus musculus ]</a> |
| <b>Official Symbol</b> | <a href="#">Kdr</a>  |

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**Synonyms**

Kdr; kinase insert domain protein receptor; Flk1; Ly73; Flk-1; Krd-1; VEGFR2; VEGFR-2; sVEGFR-2; 6130401C07; VEGF receptor-2; OTTMUSP00000023578; vascular endothelial growth factor receptor-2; vascular endothelial growth factor receptor-3; vascular endothelial growth factor receptor- 2; soluble vascular endothelial growth factor receptor 2; EC 2.7.10.1

**Gene ID**

[16542](#)

**mRNA Refseq**

[NM\\_010612](#)

**Protein Refseq**

[NP\\_034742](#)

**UniProt ID**

[P35918](#)

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