

# Recombinant Mouse Kinase Insert Domain Protein Receptor, Fc-His

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

## SPECIFICATION

<b>Product Overview</b>	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>Molecular Weight</b>	The predicted molecular weight of Recombinant Mouse VEGF R2 is Mr 110 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 166-191 kDa.
<b>State Of Matter</b>	Lyophilized.
<b>Purity</b>	>90% by SDS Page and analyzed by silver stain.
<b>Formulation</b>	This recombinant protein was 0.2 µ filtered and lyophilized from modified Dulbecco's

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	phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
<b>Endotoxin</b>	<1.0 EU/g as determined by the LAL method.
<b>Biological 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>Storage And Stability</b>	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Kdr kinase insert domain protein receptor [ Mus musculus ]</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">16542</a>
<b>mRNA Refseq</b>	<a href="#">NM_010612</a>
<b>Protein Refseq</b>	<a href="#">NP_034742</a>

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<b>UniProt ID</b>	P35918
<b>Chromosome Location</b>	5 C3.3; 5 42.0 cM
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; VEGF signaling pathway
<b>Function</b>	ATP binding; growth factor binding; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor receptor activity

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