

Recombinant Mouse Kinase Insert Domain Protein Receptor, Fc-His

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-762 a.a.
Description	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.
Molecular Weight	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.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

	phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	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.
Storage And Stability	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

Gene Name	Kdr kinase insert domain protein receptor [<i>Mus musculus</i>]
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

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UniProt ID	P35918
Chromosome Location	5 C3.3; 5 42.0 cM
Pathway	Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; VEGF signaling pathway
Function	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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