Active Recombinant Mouse Kdr Protein, Fc/His-tagged, Alexa Fluor 647 conjugated

Cat. No. Kdr-1786MAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 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.
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.
Form	Lyophilized
Bio-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.
Molecular Mass	166-191 kDa

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Endotoxin	< 1.0 EU/ μg as determined by the LAL method
Purity	> 90 % by SDS-PAGE and analyzed by silver stain
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	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.
Storage	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.
Storage Buffer	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.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	Kdr kinase insert domain protein receptor [Mus musculus]
Official Symbol	Kdr
Synonyms	Kdr; kinase insert domain protein receptor; Flk1; Ly73; Flk-1; Krd-1; VEGFR2;

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	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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