

Active Recombinant Mouse FMS-like tyrosine kinase 1 Protein, Fc tagged

Cat. No. Flt1-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse VEGFR1/Flt-1, fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
ProteinLength	23-759aa
Description	Enables identical protein binding activity and vascular endothelial growth factor receptor activity. Involved in several processes, including blood vessel morphogenesis; embryonic morphogenesis; and hyaloid vascular plexus regression. Acts upstream of or within several processes, including angiogenesis; positive regulation of hematopoietic progenitor cell differentiation; and post-embryonic camera-type eye morphogenesis. Located in extracellular space and nucleus. Is expressed in several structures, including alimentary system; cardiovascular system; central nervous system; extraembryonic component; and genitourinary system. Human ortholog(s) of this gene implicated in Kuhnt-Junius degeneration; bronchopulmonary dysplasia; diabetic retinopathy; and pre-eclampsia. Orthologous to human FLT1 (fms related receptor tyrosine kinase 1).
Tag	Fc
Form	Liquid

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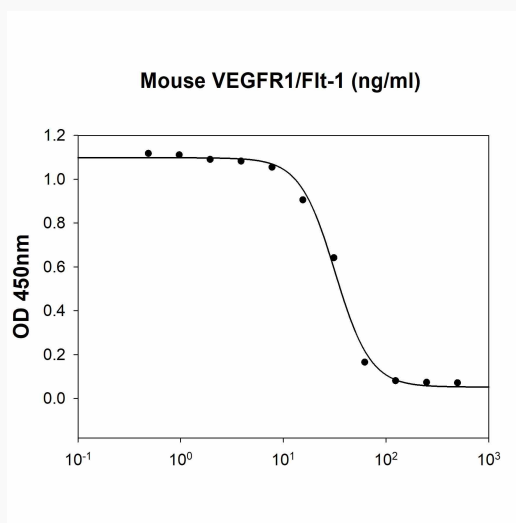
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Molecular Mass	108.9 kDa (970aa)
AA Sequence	YGS GSKLKVPELSLKG TQHVMQAGQTLFLKCRGEAAHSWSLPTTVSQEDKRLSITP PSACGRDNRQFCSTLTLDTAQANHTGLYTCRYLPTSTSKKKKAESSIYIFVSDAGSP FIEMHTDIPKLVHMTTEGRQLIIPCRVTSPNVTVTLLKKFPFDTLTPDGQRITWDSRRGFI IANATYKEIGLLNCEATVNGHLYQTNLYTHRQNTILDVQIRPPSPVRLHGHQTLVLNC TATTELNTRVQMSWNYPGKATKRASIRQRIDRSHSHNNVFHSLKINNVESRDKGLY TCRVKSGSSFQSFNTSVHVEYKGFISVKHRKQPVQETTAGRRSYRLSMKVKAFFSP EIVWLKDGSPATLKSARYLVHGYSLIHKDVTTEDAGDYTILLGIKQSRLFKNLATLIVN VKPQIYEKSVSSLPSPLYPLGSRQVLTCTVYGIPRPTITWLWHPCHHNHHSKERYDF CTENEESFILD PSSNLGNRIESISQRMTVIEGTNKT VSTLVVADSQTPGIYSCRAFNKI GTVERNIKFYVTDVPNGFHVSLKEMPAEGEDLKLSCVVNKFLYRDITWILLRTVNNRT MHHSISKQKMATTQDYSITLNLVIKNVSLEDSGTYACRARNIYTGEDILRKTEVLVRD SEAPHLLQNLSDYEVSI SGSTTLDCQARGVPAPQITWFKNNH KIQQEPGIILGPGNST LFIERVTEEDEGVYRCRATNQKGAVESAAYLTVQGTSDKSNLE
Bio-Activity	Measured by its ability to inhibit proliferation using HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range ≤ 50 ng/mL.
Endotoxin	< 1 EU/ μ g by LAL.
Purity	$> 85\%$ by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

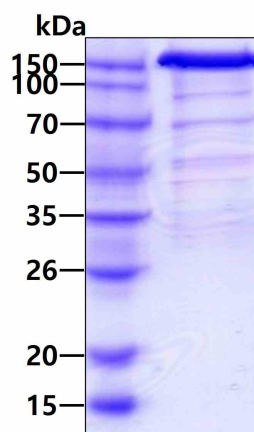
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Reference	1. Peters, K.G. et al. (1993) Proc. Natl. Acad. Sci. USA 90:8915-8919. 2. Kendall R.L., et al., (1993), Natl. Acad. Sci. U.S.A. 90:10705-10709. 3. Herley M.T., et al., (1999), Biochem. Biophys. Res. Commun. 262:731-738.
GENE INFORMATION	
Gene Name	Flt1 FMS-like tyrosine kinase 1 [Mus musculus (house mouse)]
Official Symbol	Flt1
Synonyms	FLT1; FMS-like tyrosine kinase 1; vascular endothelial growth factor receptor 1; embryonic receptor kinase 2; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; vascular endothelial growth factor receptor-1; Flt-1; sFlt1; VEGFR1; VEGFR-1; AI323757
Gene ID	14254
mRNA Refseq	NM_010228
Protein Refseq	NP_034358
UniProt ID	P35969

Biological Activity



Mouse VEGFR1/Flt-1 inhibit proliferation of the HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range ≤ 50 ng/mL.

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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