

VEGFR-2/KDR (native), soluble Active Protein | VEGFR-2/KDR active protein

Human VEGFR-2/KDR (native), soluble

CATALOG # AAA79129	HOST Insect Cells	REACTIVITY Human
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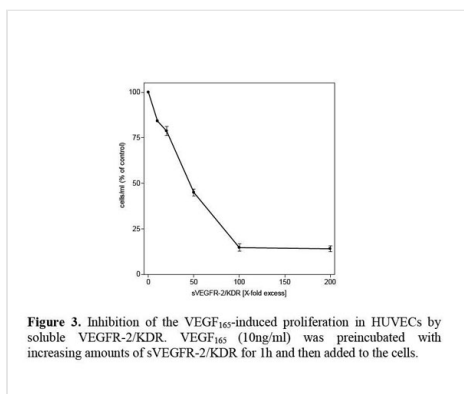
PRODUCT SYNONYMS

VEGFR-2/KDR (native); soluble; Human VEGFR-2/KDR (native); Recombinant Human Endogenous Soluble VEGFR-2/KDR; Vascular endothelial growth factor receptor 2; Protein-tyrosine kinase receptor flk-1; VEGFR-2/KDR active protein

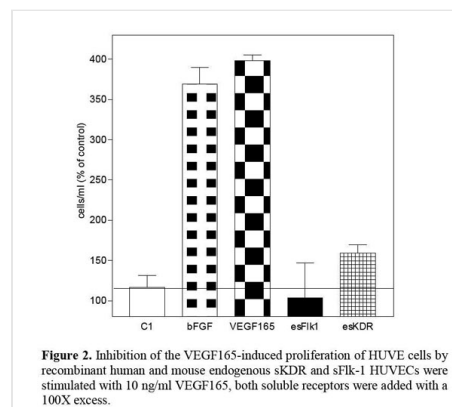
PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence: A SVGLPSVSL
Sequence Length	659
N Terminal Sequence	ASVGLPSVSL
Buffer	25 mM MES, 100 mM NaCl; pH 5.5
Preparation and Storage	The material is stable for greater than six months at -20 degree C to -70 degree C. After the first thawing it is recommended to aliquote the material, because repeated freeze-thaw cycles will decrease the activity. Store at 4 degree C not longer than 2 days.

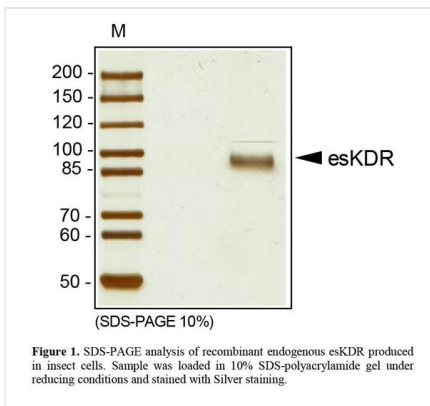
IMAGES



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for VEGFR-2/KDR active protein	The naturally occurring form of human soluble Endothelial Growth Factor Receptor-2 (sKDR) was cloned from a full length KDR cDNA by standard molecular methods. The soluble receptor protein consists of the first 6 extracellular domains and contains the unique C-terminal end of native human soluble VEGFR-2/KDR (CGRETILDHSAEAVGMP) generated by alternative splicing. The recombinant human sKDR is produced in a monomeric form in insect cells. The receptor monomers have a mass of approximately 105 kDa. Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), and VEGFR-3 (Flt-4). For Flt-1 as well as KDR naturally occurring soluble forms are described. The expression of the receptors is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signaling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. The binding of VEGF165 to VEGFR-2 is dependent on heparin.
Product Categories/Family for VEGFR-2/KDR active protein	Soluble receptors
References	1. Shibata et al, BMC Medicine 8 (2010) 2. Albuquerque et al, Nature Med 2009 3. Ebos et al, Mol Cancer Res 2 (2004) 4. Ebos et al, Cancer res 68 (2008).

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244.1
NCBI GenBank Nucleotide #	NM_002253.2
UniProt Accession #	P35968; O60723; Q14178; A2RRS0; B5A925; C5IFA0
Molecular Weight	105 kDa (Monomer)
NCBI Official Full Name	vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain receptor (a type III receptor tyrosine kinase)
NCBI Official Symbol	KDR
NCBI Official Synonym Symbols	FLK1; CD309; VEGFR; VEGFR2
NCBI Protein Information	vascular endothelial growth factor receptor 2; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor
UniProt Protein Name	Vascular endothelial growth factor receptor 2

UniProt Gene Name	KDR
UniProt Synonym Gene Names	FLK1; VEGFR2; VEGFR-2; FLK-1; KDR
UniProt Entry Name	VGFR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/insect-human-active-protein/vegfr-2-kdr-native-soluble/79129>