

## Product datasheet for **TP710248**

### VEGF Receptor 2 (KDR) (NM\_002253) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human kinase insert domain receptor (a type III receptor tyrosine kinase) (KDR), residues 20-764aa, with C-terminal DDK tag, expressed in sf9, 20ug
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC219851, the region(Met-Ala20-Glu764) of Homo sapiens KDR
Tag:	C-DDK
Predicted MW:	83.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, 100 mM glycine, pH 8.0, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_002244</a>
Locus ID:	3791
UniProt ID:	<a href="#">P35968</a>
RefSeq Size:	6055
Cytogenetics:	4q12
RefSeq ORF:	4068
Synonyms:	CD309; FLK1; VEGFR; VEGFR2



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**Summary:**

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

**Protein Pathways:**

Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway

**Product images:**