

## Product Data Sheet

## VEGFR-1 Protein, Human (328a.a, HEK293, Fc)

Cat. No.:	HY-P73064
Synonyms:	Vascular endothelial growth factor receptor 1; FLT; FLT1; FRT; VEGFR-1
Species:	Human
Source:	HEK293
Accession:	P17948 (M1-I328)
Gene ID:	2321
Molecular Weight:	Approximately 61.1 kDa
Accession: Gene ID:	P17948 (M1-I328) 2321

PROPERTIES		
T KOT EKTIES		
AA Sequence	MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTQHIMQAGQTLHLQCRGEAAHKWSLPEMVSKESERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFPLDTLIPDGKRIIWDSRKGFIISNATYKEIGLLTCEATVNGHLYKTNYLTHRQTNTIIDVQISTPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSGPSFK	
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.	
Appearance	Lyophilized powder.	
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Twee added as protectants before lyophilization.	en 80 are
Endotoxin Level	<1 EU/µg, determined by LAL method.	
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protei recommended to freeze aliquots at -20°C or -80°C for extended storage.	n). It is
Shipping	Room temperature in continental US; may vary elsewhere.	

## DESCRIPTION

Background

VEGFR-1 Protein is a tyrosine-protein kinase that serves as a cell-surface receptor for VEGFA, VEGFB, and PGF. It plays a

crucial role in various biological processes, including embryonic vasculature development, angiogenesis regulation, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. Additionally, VEGFR-1 acts as a positive regulator of postnatal retinal hyaloid vessel regression and may function as a negative regulator of embryonic angiogenesis by inhibiting excessive endothelial cell proliferation. In adulthood, it promotes endothelial cell proliferation, survival, and angiogenesis, although its proliferative effects appear to be cell-type specific. VEGFR-1 has a high affinity for VEGFA and acts as a negative regulator of its signaling by limiting the availability of free VEGFA and preventing its binding to KDR. It modulates KDR signaling by forming heterodimers with KDR. Ligand binding to VEGFR-1 also phosphorylates SRC, YES1, CBL, AKT1, PTK2/FAK1, and PLCG.

## Caution: Product has not been fully validated for medical applications. For research use only.

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