

## Product datasheet for **TP728293M**

### Recombinant VEGF121 (Vascular endothelial growth factor 121), Human

#### Product data:

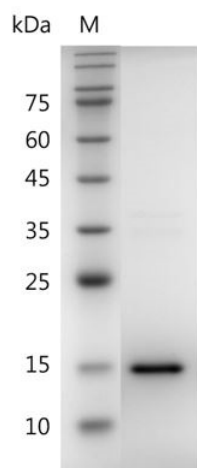
Product Type:	Recombinant Proteins
Description:	Recombinant VEGF121 (Vascular endothelial growth factor 121), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYYPDEIEYIFKPSCVPLMRCGGCCNDEGLECV PTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENCDKPRR with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 15.00 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce proliferation in HUVEC cells. The ED <sub>50</sub> for this effect is <2.5 ng/mL.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	<a href="#">PDB: 3V2A_A</a>
Synonyms:	VPF



[View online »](#)

**Summary:**

Vascular Endothelial Growth Factors 121 (VEGF121) is one of five VEGF splice variants of 121, 145, 165, 183, 189, and 206 amino acids (aa) in length. VEGF121 is the only VEGF which lacks heparin-binding activity and is freely diffusible. VEGF binds the type I transmembrane receptor tyrosine kinases VEGF R1 (also called Flt-1) and VEGF R2 (Flk-1 /KDR) on endothelial cells to activate signal transduction and regulate both physiological and pathological angiogenesis.

**Product images:**

SDS- PAGE analysis of recombinant human VEGF121