

Product datasheet for **TP728376M**

Recombinant VEGF121 (Vascular endothelial growth factor 121), Mouse

Product data:

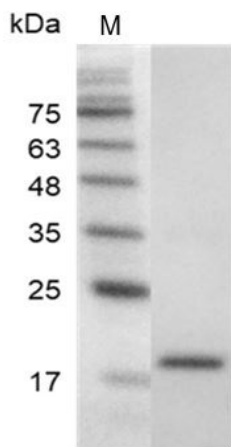
Product Type:	Recombinant Proteins
Description:	Recombinant VEGF121 (Vascular endothelial growth factor 121), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAPTTEGEQKSHEVIKFMDEVYQRSYCRPIETLVDIFQEYYPDEIEYIFKPCVPLMRCAGCCNDEALECVPTSE SNITMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTKPEKCDKPRR with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 15.01 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 ₅₀ for this effect is <3 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 ₂ 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:	Q00731
Synonyms:	VPF



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Summary:

Vascular Endothelial Growth Factors 121 (VEGF121) is a truncated version of VEGF165, which produced in *E. coli* is a homodimer, non-glycosylated, polypeptide chain and having a molecular mass of 28.4 kDa. There is three different isoforms (120, 164 and 188 a.a.) found in mouse. VEGF 121 shows that lack basic heparin-binding regions and are freely diffusible. Mouse VEGF121 shares 98% identity with corresponding regions of rat, 89% with canine, feline, equine and porcine, and 87% with human, ovine and bovine VEGF, respectively.

Product images:

SDS- PAGE analysis of recombinant mouse VEGF121