

Mouse recombinant VEGF121 (Vascular endothelial growth factor 121) protein, AF

Catalog Number: PROTQ00731-6

Overview

Product Name	Mouse recombinant VEGF121 (Vascular endothelial growth factor 121) protein, AF
Description	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.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

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.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 15.01 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce proliferation in HUVEC cells. The ED₅₀ for this effect is <3 ng/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MAPTTEGEQKSHEVIKFM DVYQRSYCRPIETLVDIFQEYPDEIEYIFKPCVPLMRCAGCCNDEALECVPTSES NITMQIMRIKPHQSQHIGEMSFLQHSR
CECRPKKDRTKPEKCDKPRR with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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