

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

Catalog Number: PROTP15692-17

Overview

Product Name	Human recombinant VEGF121 (Vascular endothelial growth factor 121) protein, AF
Description	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 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.
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 15.00 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 <2.5 ng/mL.

Endotoxin

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

Amino Acid Sequence

MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYYPDEIEYIFKPSCVPLMRCGGCCNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENCDKPRR 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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