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Human recombinant VEGF165 (Vascular endothelial growth factor 165) protein, AF

Catalog Number: PROTP15692-18

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Overview

Product Name	Human recombinant VEGF165 (Vascular endothelial growth factor 165) protein, AF
Description	Vascular Endothelial Growth Factors 165(VEGF165) is a potent growth and angiogenic cytokine which belongs to the VEGF family, includes VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PIGF. Human VEGF165 is an abundant glycosylated cytokine composed of two identical 165 amino acid chains. Human VEGF165 plays an important role in embryonic vasculogenesis, angiogenesis and neurogenesis.
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

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 20.11 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to induce HUVEC cells proliferation. The ED_{50} for this effect is <5 ng/mL. The specific activity of recombinant human VEGF165 is approximately >1.4 x 10^6 IU/mg.

Endotoxin

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

Amino Acid Sequence

MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRCGGCCNDEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFL QHNKCECRPKKDRARQENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR 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 H_2O 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.

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Usage

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For Research Use Only. Not for use in diagnostic procedures.