

Product datasheet

Recombinant human VEGF 121B protein ab61872

3 Images

Description

Product name	Recombinant human VEGF 121B protein
Biological activity	Biological Activity: The biological activity is determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 0.2-0.4 ng/ml.
Purity	> 95 % SDS-PAGE. Purity greater than 95% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P15692-9</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENCDKPR R

Specifications

Our **Abpromise guarantee** covers the use of **ab61872** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized
Additional notes	Aliquot and freeze at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

It is recommended to reconstitute the lyophilized VEGF in sterile H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

General Info

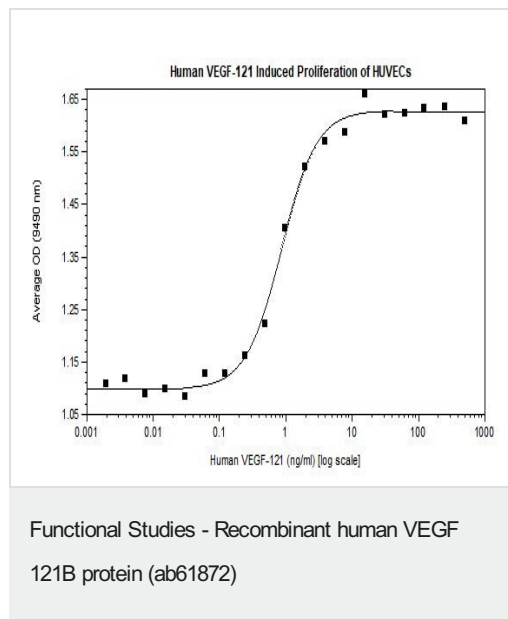
Relevance

VEGFA is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis, and induces permeabilization of blood vessels. Binds to the VEGFR1/Flt-1 and VEGFR2/Kdr receptors, heparan sulfate and heparin. Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. In contrast to other factors mitogenic for endothelial cells such as FGF-1, FGF-2 and PDGF, VEGF is synthesized as a precursor containing a typical hydrophobic secretory signal sequence of 26 amino acids. Glycosylation is not required for efficient secretion of VEGF. VEGF 121 circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates.

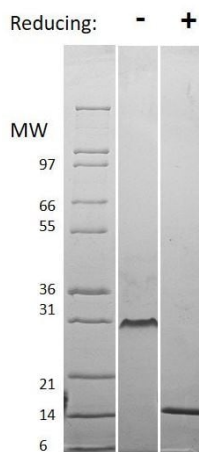
Cellular localization

Secreted

Images

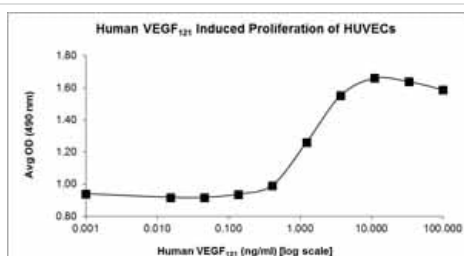


Functional analysis of ab61872



SDS PAGE analysis of ab61872 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

SDS-PAGE - Recombinant human VEGF 121B protein (ab61872)



ab61872 used in Functional Studies.

Functional Studies - Recombinant human VEGF 121B protein (ab61872)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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