

Recombinant human VEGF189 protein ab106307

2 References 画像数 3

製品の詳細

製品名	Recombinant human VEGF189 protein
生理活性	Measured by the stimulation of cell proliferation in human umbilical vein endothelial cells in the range of 2-20 ng/ml.
精製度	> 98 % SDS-PAGE. Gel filtration, purification via Uno S6
エンドキシン・レベル	< 0.100 Eu/μg
発現系	Escherichia coli
アクセッション番号	<u>P15692</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDE IEYIFKPS CVPLMRCGGCCNDEGLECVPTESNITMQIMRIKPHQGQHIG EMSFLQHN KCECRPKKDRARQEKKSVRGKGKGQKRKRKKSRYKSWSVPCG PCSERRKH LFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR
予測される分子量	42 kDa
領域	27 to 232
配列の追加情報	Mature protein without signal peptide.

特性

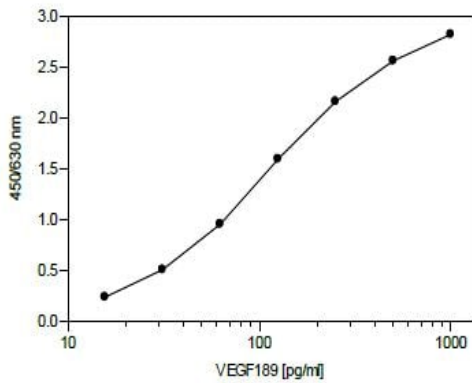
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The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Functional Studies
	SDS-PAGE
製品の状態	Lyophilized

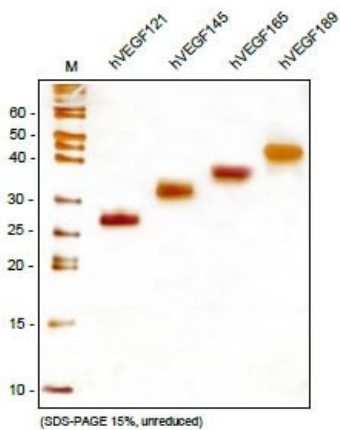
備考	Molecular weight: ~42 kDa (Dimer)
前処理および保存	
保存方法および安定性	<p>Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.</p> <p>Constituent: 0.3% Acetic acid</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
再構成	Should be reconstituted in PBS or medium containing at least 0.1% human or bovine serum albumin to a concentration not lower than 50 µg/ml.
関連情報	
機能	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 FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.
組織特異性	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.
関連疾患	Defects in VEGFA are a cause of susceptibility to microvascular complications of diabetes type 1 (MVCD1) [MIM:603933]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
配列類似性	Belongs to the PDGF/VEGF growth factor family.
細胞内局在	Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

画像



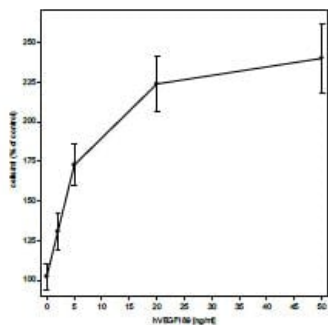
Functional Studies - Recombinant human VEGF189 protein (ab106307)

VEGF-A Sandwich-ELISA using VEGF189 as standard. Mouse anti-human VEGF-A was used as capture antibody, Biotinylated mouse anti-human VEGF-A was used for detection.



SDS-PAGE - Recombinant human VEGF189 protein (ab106307)

SDS-PAGE analysis of recombinant human VEGF-A isoforms produced in *E. coli*. Samples were loaded under non-reducing conditions in 15% SDS-polyacrylamide gel and stained with Silver stain.



Functional Studies - Recombinant human VEGF189 protein (ab106307)

VEGF189-induced proliferation of primary human dermal lymphatic endothelial cells (HDLEC). HDLECs were stimulated with increasing amounts of recombinant human VEGF189.

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