

Product datasheet

Recombinant human VEGF189 protein ab106307

1 References

製品の概要

製品名	Recombinant human VEGF189 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
アクセッション番号	P15692
生物種	Human
配列	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTTEESNITMQIMRIKPHQGQHIGEMSFLQHN KCECRPKKDRARQEKKSVRGKGGKQKRKRKKSRYKSWVPCGPCSEERRKH LFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR
分子量	42 kDa
領域	27 to 232
配列の追加情報	Mature protein without signal peptide.

特性

Our [Abpromise guarantee](#) covers the use of **ab106307** in the following tested applications.

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

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.
アプリケーション	Functional Studies SDS-PAGE
エンドトキシン・レベル	< 0.100 Eu/μg
精製度	> 98 % SDS-PAGE. > 98% by SDS-PAGE and visualised by silver stain.
製品の状態	Lyophilised

前処理および保存

保存方法および安定性

Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.

Preservative: None

Constituents: 50mM Acetic acid

This product is an active protein and may elicit a biological response in vivo, handle with caution.

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.

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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.

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