

Product datasheet

Recombinant human EG-VEGF protein (Active) ab242209

[1 Image](#)

Description

Product name	Recombinant human EG-VEGF protein (Active)	
Biological activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using bovine EJC cells is less than 2.0 µg/ml, corresponding to a specific activity of >500 IU/mg.	
Purity	> 98 % SDS-PAGE. > 98 % by HPLC.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	<u>P58294</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	AVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGE ECHPGSHKVPF FRKRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF	
Predicted molecular weight	10 kDa	
Amino acids	20 to 105	
Additional sequence information	This product is the mature full length protein from aa 20 to 105. The signal peptide is not included.	

Specifications

Our **Abpromise guarantee** covers the use of **ab242209** 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 HPLC Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle.

Constituents: PBS, 0.02% Tween

0.2 µm filtered.

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

Reconstitution

Briefly centrifuge vial prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at -20 °C or below. Further dilutions should be made in appropriate buffered solutions.

General Info

Function

Potently contracts gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types. Induces proliferation and differentiation, but not migration, of enteric neural crest cells. Directly influences neuroblastoma progression by promoting the proliferation and migration of neuroblastoma cells. Positively regulates PTGS2 expression and prostaglandin synthesis. May play a role in placentation. May play a role in normal and pathological testis angiogenesis.

Tissue specificity

Localizes to glandular epithelium, stroma and vascular epithelial cells of first trimester decidua (at protein level). Up-regulated in first trimester decidua when compared with non-pregnant endometrium. Expressed in the steroidogenic glands, ovary, testis, adrenal and placenta.

Sequence similarities

Belongs to the AVIT (prokineticin) family.

Developmental stage

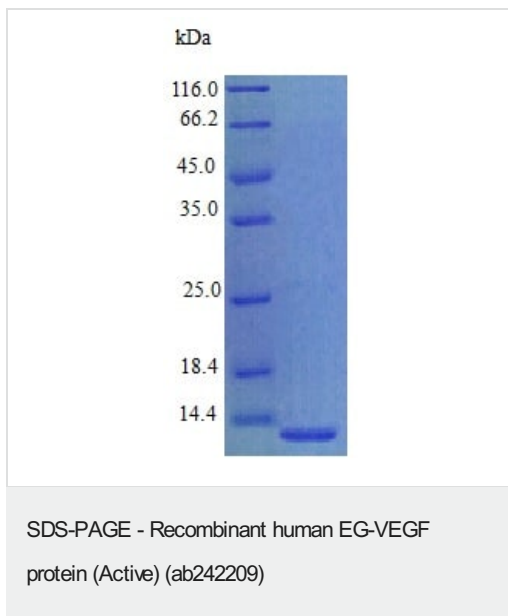
In adult testis, is strongly expressed only in Leydig cells. In testicular tumors, expressed specifically in Leydig cell tumors (at protein level). Expressed from 14 weeks until birth in fetal testis.

Cellular localization

Secreted.

Images

SDS-PAGE analysis of ab242209.



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