

Product datasheet

Recombinant Human Angiopoietin-like 4/ANGPTL4 protein (His tag) ab191677

1 Image

Description	
Product name	Recombinant Human Angiopoietin-like 4/ANGPTL4 protein (His tag)
Purity	> 95 % SDS-PAGE. ab191677 is lyophilized from 0.22 µm filtered solution.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<u>Q9BY76</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	PEMAQPVDPAHNVSRLHRLPRDCQELFQVGERQSGLFEI QPQGSPPFLVN CKMTSDGGWTVIQRHDGSVDFNRPWEAYKAGFGDPHG EFWLGLEKVHSI TGDRNSRLAVQLRDWDGNAELLQFSVHLGGEDTAYSLQL TAPVAGQLGAT TVPPSGLSVPFSTWDQDHDLRRDKNCAKSLSGGWWFG TCSHSNLNGQYFR SIPQQRQKLKKGIFWKTWRGRYYPLQATTMLIQPMAAEAA S
Predicted molecular weight	28 kDa including tags
Molecular weight information	The protein has a calculated MW of 27.9 kDa. The protein migrates as 31-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Amino acids	166 to 406
Tags	His tag N-Terminus
Additional sequence information	NP_647475

Specifications

Our Abpromise guarantee covers the use of **ab191677** 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
Form	Lyophilized
Additional notes	This product was previously labelled as Angiopoietin-like 4

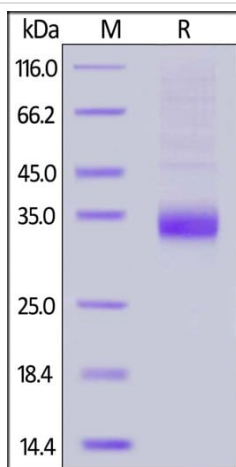
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 7.4</p> <p>Constituents: 1.045% MOPS, 0.58% Sodium chloride, 0.1% CHAPS</p> <p>5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%</p>
Reconstitution	Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

General Info

Function	Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation.
Tissue specificity	Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.
Sequence similarities	Contains 1 fibrinogen C-terminal domain.
Post-translational modifications	N-glycosylated.
Cellular localization	Secreted. Secreted > extracellular space > extracellular matrix. The unprocessed form interacts with the extracellular matrix. This may constitute a dynamic reservoir, a regulatory mechanism of the bioavailability of ANGPTL4.

Images



ab191677 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%. The protein migrates as 33-38 kDa under reducing condition due to glycosylation.

SDS-PAGE - Recombinant Human Angiopoietin-like 4/ANGPTL4 protein (His tag) (ab191677)

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

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