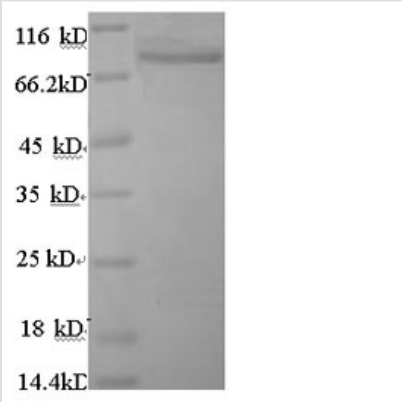
Recombinant Human Angiopoietin-related protein 4 (ANGPTL4), partial

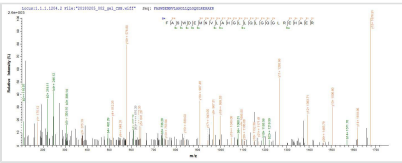
Product Code	CSB-EP866314HU1
Relevance	Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function 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 domain 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 .
Abbreviation	Recombinant Human ANGPTL4 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9BY76
Alias	Angiopoietin-like protein 4Hepatic fibrinogen/angiopoietin-related protein ;HFARP
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VQSKSPRFASWDEMNVLAHGLLQLGQGLREHAERTRSQLSALERRLSACGS ACQGTEGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLFHKVAQQQRHL EKQHLRIQHLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPVDPAHNVSRLH RLPRDCQELFQVGERQSGLFEIQPQGSPPFLVNCKMTSDGGWTVIQRRHDG SVDFNRPWEAYKAGFGDPHGEFWLGLEKVHSITGDRNSRLAVQLRDWDGNA ELLQFSVHLGGEDTAYSLQLTAPVAGQLGATTVPPSGLSVPFSTWDQDHDLR RDKNCAKSLSGGWWFGTCSHSNLNGQYFRSIPQQRQKLKKGIFWKTWRGRY YPLQATTMLIQPMAAE
Research Area	Cardiovascular
Source	E.coli
Target Names	ANGPTL4
Expression Region	28-403aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info	N-terminal GST-tagged
Mol. Weight	69.6kDa
Protein Length	Partial

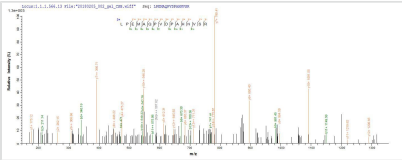
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-RP101444h could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) ANGPTL4.



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Description

A cDNA ORF corresponding to the peptide of Human Angiopoietin-related protein 4 (ANGPTL4) was expressed with an N-terminal GST-tag in E.coli. ANGPTL4 CSB-EP866314HU1 is a truncated molecule having amino acid residues of Val28-Glu403. Its purity is greater than 90% as measured by SDS-PAGE. A molecular mass band of 88 about kDa was presented on the SDS-PAGE gel under reducing conditions. It was also validated by the LC-MS/MS analysis. This recombinant ANGPTL4 protein may be not only used for specific antibody production but also applied in the studies of cardiovascular diseases.

ANGPTL4 is a secreted protein with multiple functions. It participates in various biological processes, such as lipid metabolism, angiogenesis, and vascular permeability, cell differentiation, glucose, and energy homeostasis, wound healing, inflammation, redox regulation, and tumorigenesis. The ANGPTL4-high expression has demonstrated to be related to poor prognostic outcome in patients with various solid tumors. This may suggest the involvement of ANGPTL4 in cancer onset and progression, metastasis, and anoikis resistance.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final

	concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.