

## Active Recombinant Human ANGPTL4, FLAG-tagged

Cat. No. ANGPTL4-98H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Signal peptide and coiled-coil domain of human ANGPTL4 (aa 1-161) are fused at the C-terminus to a FLAG-tag.

**Species** Human

**Source** HEK293

**ProteinLength** 1-161 a.a.

**Description**

ANGPTL4 (Angiopoietin-like protein 4) mainly expressed in endothelial cells (hypoxia-induced). Regulates angiogenesis and modulates tumorigenesis and directly regulates lipid, glucose, and energy metabolism. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. ANGPTL4 is a protein consisting of an N-terminal coiled-coil domain and a C-terminal fibrinogen-like domain (FLD). Both domains have distinct biological functions. The coiled-coil domain is responsible for the inhibitory effects on lipoprotein lipase (LPL) converting the active form of LPL into an inactive form, and the FLD domain mediates its antiangiogenic functions. The coiled coil and the FLD domains are separated by a short linker that can be cleaved after secretion. ANGPTL4 appears on the cell surface as the full-length form, where it can be released by heparin treatment. ANGPTL4 protein is then proteolytically cleaved by proprotein convertases (PCs), including furin, PC5/6, paired basic amino acid-cleaving enzyme 4, and PC7.

**Form** Liquid. 0.2µm-filtered solution in PBS.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Bio-activity</b>	Activates ERK phosphorylation in THP-1 cells.
<b>Molecular Mass</b>	~18kDa (SDS-PAGE)
<b>Purity</b>	≥90% (SDS-PAGE)
<b>Stability</b>	Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.3 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">ANGPTL4 angiopoietin-like 4 [ Homo sapiens ]</a>
<b>Official Symbol</b>	ANGPTL4
<b>Synonyms</b>	ANGPTL4; angiopoietin-like 4; angiopoietin-related protein 4; angiopoietin related protein 4; ARP4; fasting induced adipose factor; FIAF; hepatic angiopoietin related protein; hepatic fibrinogen/angiopoietin related protein; HFARP; NL2; peroxisome proliferator activated receptor (PPAR) gamma induced angiopoietin related protein; PGAR; pp1158; PPARG angiopoietin related protein; angiopoietin-like protein 4; fasting-induced adipose factor; hepatic angiopoietin-related protein; hepatic fibrinogen/angiopoietin-related protein; peroxisome proliferator-activated receptor (PPAR) gamma induced angiopoietin-related protein; ANGPTL2;
<b>Gene ID</b>	<a href="#">51129</a>
<b>mRNA Refseq</b>	<a href="#">NM_001039667</a>

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<b>Protein Refseq</b>	NP_001034756
<b>UniProt ID</b>	Q9BY76
<b>Chromosome Location</b>	19p13.3
<b>Pathway</b>	Developmental Biology, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; PPARA Activates Gene Expression, organism-specific biosystem;
<b>Function</b>	enzyme inhibitor activity; protein binding; receptor binding;

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