

Active Recombinant Mouse Angptl4, FLAG-tagged

Cat. No. Angptl4-105M Lot. No. (See product label)

SPECIFICATION

Product Overview Mouse ANGPTL4 (aa 1-410) is fused at the C-terminus to a FLAG-tag.

Species Mouse

Source COS-7 cells

ProteinLength 1-410 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.

Bio-activity Activates ERK phosphorylation in THP-1 cells.

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Molecular Mass	~50kDa (SDS-PAGE)
Purity	≥90% (SDS-PAGE)
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
Concentration	1mg/ml
GENE INFORMATION	
Gene Name	Angptl4 <i>angiotensin-like 4 [Mus musculus]</i>
Official Symbol	Angptl4
Synonyms	ANGPTL4; angiotensin-like 4; angiotensin-related protein 4; 425O18-1; secreted protein Bk89; angiotensin-like protein 4; fasting-induced adipose factor; fibrinogen/angiotensin-related protein; major histocompatibility complex region NG27; hepatic fibrinogen/angiotensin-related protein; Arp4; Bk89; Fiaf; Ng27; Pgar; Hfarp; Pgarg; Pp1158;
Gene ID	57875
mRNA Refseq	NM_020581
Protein Refseq	NP_065606
Pathway	PPAR (Peroxisome proliferator-activated receptor) signaling pathway, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR

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signaling pathway, conserved biosystem;

Function

enzyme inhibitor activity; receptor binding;

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