

Active Recombinant Human ANGPTL4, His-tagged

Cat. No. ANGPTL4-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ANGPTL4, Gly26-Ser406 (Lys163Ala & Arg164Ala), fused with a C-terminal 6-His tag, was expressed in Mouse NS0 Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	26-406 a.a.
Description	This gene encodes a glycosylated, secreted protein containing a C-terminal fibrinogen domain. The encoded protein is induced by peroxisome proliferation activators and functions as a serum hormone that regulates glucose homeostasis, lipid metabolism, and insulin sensitivity. This protein can also act as an apoptosis survival factor for vascular endothelial cells and can prevent metastasis by inhibiting vascular growth and tumor cell invasion. The C-terminal domain may be proteolytically-cleaved from the full-length secreted protein. Decreased expression of this gene has been associated with type 2 diabetes. Alternative splicing results in multiple transcript variants. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4.
Predicted N Terminal	Gly26
Form	Lyophilized from a 0.2 µm filtered solution in MOPS, NaCl and CHAPS.
Bio-activity	Measured by its ability to inhibit lipoprotein lipase activity. The IC50 value under

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	conditions in which lipoprotein lipase is present at 5 units/mL, and p-nitrophenyl butyrate concentration is 1 mM in 0.1 M sodium phosphate-0.15 M NaCl-0.5% Triton? X-100, pH 7.2, is approximately 0.5-20 µg/mL.
Molecular Mass	Predicted Molecular Mass: 43.6 kDa (monomer)SDS-PAGE: 50-55 kDa, reducing conditions
Endotoxin	< 1.0 eu per 1 µg of the protein by the lal
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name	ANGPTL4 angiopoietin-like 4 [Homo sapiens]
Official Symbol	ANGPTL4
Synonyms	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 prolife
Gene ID	51129
mRNA Refseq	NM_001039667

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Protein Refseq	NP_001034756
MIM	605910
UniProt ID	Q9BY76
Chromosome Location	19p13.3
Pathway	Developmental Biology; PPAR signaling pathway; Regulation of lipid metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha)
Function	enzyme inhibitor activity; protein binding

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