

# Recombinant Mouse Angiopoietin-like 4, Coiled-Coil Domain, His-tagged

**Cat. No.** ANGPTL4-402M    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Human Angiopoietin-like 4 is expressed in *HEK 293 cells*. The signal peptide and the coiled-coil domain of mouse ANGPTL4 (aa 1-162) are fused at the C-terminus to a His-tag.

### Species

Mouse

### Source

HEK293

### ProteinLength

1-162 a.a.

### Description

The fasting-induced adipose factor (FIAF, ANGPTL4, PGAR, HFARP) was identified as an adipocytokine up-regulated by fasting, by peroxisome proliferator-activated receptor agonists, and by hypoxia. At the protein level, in human and mouse blood plasma, FIAF was found to be present both as a native protein and in a truncated form. Differentiation of mouse 3T3-L1 adipocytes was associated with the production of truncated FIAF, whereas in human white adipose tissue and SGBS adipocytes, only the native FIAF could be detected. Interestingly, the truncated FIAF was produced by human liver. Experimental data suggest that FIAF is mainly presented in human blood plasma in a truncated form (FIAF-S2), whose level is increased by fenofibrate treatment. Levels of both truncated and native FIAF showed marked inter individual variation but were not associated with body mass index and were not influenced by prolonged semistarvation.

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|                    |                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>      | Greater than 90% as determined by SDS-PAGE.                                                                                                               |
| <b>Formulation</b> | Liquid. 0.2µm-filtered solution in PBS.                                                                                                                   |
| <b>Endotoxin</b>   | <1EU/g protein (LAL-test).                                                                                                                                |
| <b>Storage</b>     | -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">Angptl4</a> angiopoietin-like 4 [ <i>Mus musculus</i> ]                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | ANGPTL4; angiopoietin-like 4; Arp4; Bk89; Fiaf; Ng27; Pgar; Hfarp; Pgarg; Pp1158; angiopoietin-related protein 4; 425O18-1; secreted protein Bk89; fasting-induced adipose factor; fibrinogen/angiopoietin-related protein; major histocompatibility complex region NG27; hepatic fibrinogen/angiopoietin-related protein |
| <b>Gene ID</b>             | <a href="#">57875</a>                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_020581</a>                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | <a href="#">NP_065606</a>                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | Q9Z1P8                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 17 B1                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | PPAR signaling pathway                                                                                                                                                                                                                                                                                                    |

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**Function**

enzyme inhibitor activity; molecular\_function; receptor binding

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