

## ANGPTL4 Human, HEK

**Description:** The ANGPTL4 Human Recombinant is manufactured with C-terminal fusion of 11 amino acid FLAG Tag. The ANGPTL4 Flag -Tagged Fusion Protein is a 44.2kDa protein containing 392 amino acid residues of the Angiopoietin-like Protein 4 and 11 additional amino acid residues - Flag Tag (underlined).

**Synonyms:** ANGPTL4, NL2, ARP4, FIAF, PGAR, HFARP, pp1158, ANGPTL2, Fasting- Induced Adipose Factor, Hepatic Fibrinogen/Angiopoietin-Related Protein, PPARG Angiopoietin-Related Protein.

**Source:** HEK293.

**Physical Appearance:** Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** GPVQSKSPRF ASWDEMNVL A HGLLQLGQGL REHAERTRSQ  
LSALERRLSA CGSACQGTEG STDLPAPES RVDPEVLHSL QTQLKAQNSR IQQLFHKVAQ  
QQRHLEKQHL RIQLHLSQFG LLDHKHLDHE VAKPARRKRL PEMAQPDPA HNVSRHLRLP  
RDCQELFQVG ERQSGLFIEI PQGSPFFLVN CKMTSDGGWT VIQRRHDSV DFNRPW EAYK  
AGFGDPHGEF WL

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

Filtered and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl pH-7.5.

**Stability:**

Store lyophilized Angiopoietin-like Protein 4 Human recombinant at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Western blotting.

**Solubility:**

Add pyrogen free water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Introduction:**

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

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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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