# Angiopoietin-Like Protein 2 Human E. coli

## Product Data Sheet

**Type:** Recombinant
**Source:** E. coli
**Species:** Human
**Other names:** Angiopoietin-Related Protein 2, ANGPTL2, ARP2, UNQ170/PRO196

**Cat. No.:**
RD172305100 (0.1 mg)

## Description

Total 481 AA. MW: 56 kDa (calculated). UniProtKB acc.no. Q9UKU9 (Ser33-Ile193). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

## Introduction to the Molecule

ANGPTL2 is an anti-diabetic factor. It increases insulin sensitivity in adipocytes. It is also a mediator of chronic adipose tissue inflammation. ANGPTL2 shows angiogenic effects.

## Amino Acid Sequence

```
MKHHHHHHAS QEDGFEGTEE GSPREFIYLN RYKRAGESQD KCTYTFIVPQ QRVTGAICVN SKEPEVLLEN RVHKQELELL
NNELLKQKRQ IETLQQLVEV DGGIVSEVKL LRKESRNMNS RVTQLYMQLL HEIIRKRDNA LELSQLENRI LNQTADMLQL
ASKYKDLEHK YQHLATLAHN QSEIIAQLEE HCQRVPSARP VPQPPPAAPP RVYQPPTYNR IINQISTNEI QSDQNLKVLP
PPLPTMPTLT SLPSSTDKPS GPWRDCLQAL EDGHDTSSIY LVKPENTNRL MQVWCDQRHD PGGWTVIQRR LDGSVNFFRN
WETYKQGFGN IDGEYWLGLE NIYWLTNQGN YKLLVTMEDW SGRKVFAEYA SFRLEPESEY YKLRLGRYHG NAGDSFTWHN
GKQFTTLDRD HDVYTGNCAH YQKGGWWYNA CAHSNLNGVW YRGGHYRSRY QDGVYWAEFR GGSYSLKKVV MMIRPNPNTF H
```

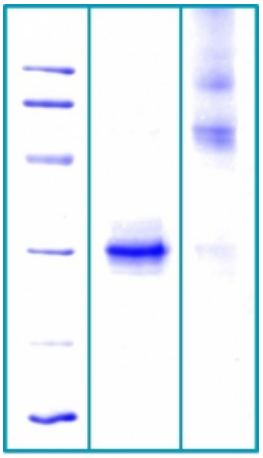
## Source

E. coli

## Purity

Purity as determined by densitometric image analysis: > 95 %

## SDS-PAGE gel



14% SDS-PAGE separation of Human Angiopoietin-Like Protein 2 :

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2. reduced and boiled sample, 2.5µg/lane

3. non-reduced and non-boiled sample, 2.5µg/lane

## Endotoxin

< 1.0 EU/ug

## Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.03M Acetate buffer pH 4.0

## Reconstitution

Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

## Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

## Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

## Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

## Applications

ELISA, Western blotting

## Note

This product is intended for research use only.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