



Angiotensin-like Protein 2, human recombinant (rhuARP2)

Catalog No: 99928
Lot No: XXXXX
Source: *E. coli*
Synonyms: Angiotensin-related protein 2, Angiotensin-like protein 2, ANGPTL2, ARP2, HARP

Background

Angiotensins belong to the vascular endothelial growth factor family and are the only known growth factors largely specific for vascular endothelium. Angiotensins-1, -2 and -4 partake in the formation of blood vessels. ANGPTL2 displays angiogenic effects. Angiotensin-like protein 2 (ANGPTL2) is an anti-diabetic factor. It induces sprouting in endothelial cells through autocrine and paracrine action. ANGPTL2 increases insulin sensitivity in adipocytes. In addition, ANGPTL2 is a mediator of chronic adipose tissue inflammation. ANGPTL2 is widely expressed in the heart, small intestine, spleen and stomach. ANGPTL2 is also found in lower levels in the colon, ovary, adrenal gland, skeletal muscle and prostate.

Description

ANGPTL2 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated, polypeptide chain containing 481 amino acids including a 10 amino acid N-terminal His tag. The total molecular mass is 56 kDa (calculated).

Physical Appearance

Filtered, white lyophilized (freeze-dried) powder.

Formulation

ANGPTL2 was filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 0.03 M acetate buffer (pH 4.0).

Solubility

It is recommended to add 0.1 M acetate buffer (pH 4) 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, an intensive dilution by relevant buffer to a concentration of 10 g/ml is recommended. In higher concentrations the solubility of the ANGPTL2 is limited. ANGPTL2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Store lyophilized protein 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.

Amino Acid Sequence

MKHHHHHHAS QEDGFEGTEE GSPREFIYLN RYKRAGESQD KCTYTFIVPQ QRVTAICVN SKEPEVLLEN RVHKQELELL
 NNELLKQKRQ IETLQQLVEV DGGIVSEVKL LRKESRMNNS RVTQLYMQLL HEIIRKRDNA LELSLENRI LNQTADMLQL
 ASKYKDLEHK YQHLATLAHN QSEIIAQLEE HCQRVPSARP VPQPPPAAPP RVYQPPTYNR IINQISTNEI QSDQNLKVL
 PPLPTMPTLT SLPSSDTKPS GPWRDCLQAL EDGHDTSIIY LVKPNENTRL MQVWCDQRHD PGGWTVIQRR LDGSVNFFRN
 WETKQGFNG IDGEYWLGLE NIYWLTNQGN YKLLVTMEDW SGRKVFAYEA SFRLEPESEY YKLRLGRYHG NAGDSFTWHN
 GKQFTTLDRD HDVYTGNCAN YQKGGWYNA CAHSNLNGVW YRGGHYRSRY QDGVYWAEFR GGSYSLLKKVV MMIRPNPNTF H

Usage

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