



Angiotensin Like Protein 3, human recombinant, HEK (rhuANG-5)

Catalog No: 99929
Lot No: XXXXX
Source: HEK293
Synonyms: Angiotensin 5, ANGPT5, ANGPTL3, Angiotensin Like Protein 3

Background

ANGPTL3 and ANGPTL4 are angiotensin-like proteins secreted and expressed mainly by the liver. Their role is the regulation of triglyceride metabolism by inhibiting the lipolysis of triglyceride-rich lipoproteins. During different nutritional states (feeding/fasting), the levels of the circulating triglycerides are regulated by Angptl3 and Angptl4 through differential inhibition of lipoprotein lipase (LPL) as shown by experimental data. The molecular structure of ANGPTL3 is similar to that of angiotensins (vascular endothelial growth factors). Deletion mutants of human angiotensin 5 were used in order to demonstrate that the N-terminal domain (fragment 17-207) and not the C-terminal fibrinogen-like domain (fragment 207-460) increased the plasma triglyceride levels in mice.

Description

ANGPTL3 Human Recombinant, produced in HEK cells, is a single, glycosylated, polypeptide chain (17-460 aa) containing a total of 450 amino acids. It has a molecular mass of 52.6 kDa (calculated) and is fused to a 6 aa His tag at C-Terminus. The Human ANGPTL3 is purified by proprietary chromatographic techniques.

Physical Appearance

Filtered, white lyophilized (freeze-dried) powder.

Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 0.05 M phosphate buffer (pH 7.4) and 0.075 M NaCl.

Solubility

It is recommended to add deionized water to a working concentration of 0.5 mg/ml and let the lyophilized pellet dissolve completely. The product 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.

Purity

Purity as determined by densitometric image analysis is greater than 95%.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.