

ANGPTL3 Human

Description: The ANGPTL3 Human Recombinant is produced with N-terminal fusion of His-Tag.

The Angiotensin-like protein 3 His Tagged Fusion Protein is 26kDa containing 207 amino acid residues of the ANGPTL3 Human and 16 additional amino acid residues His-Tag

(underlined).MRGSHHHHHH GMASHMSRID QDNSSFDSLS PEPKSRFAML DDVKILANGL
LQLGHGLKDF VHKTGQIND IFQKLNIFDQ SFYDLSLQTS EIKEEEKELR RTTYKLQVKN
EEVKNMSLEL NSKLESLEE KILLQQKVYK LEEQLTNLIQ NQPETPEHPE VTSKTFVEK
QDNSIKDLLQ TVEDQYKQLN QQHSQIKEIE NQLRRTSIQE PTEISLSSKP RAP.

Synonyms: Angiotensin 5, ANGPT5, ANGPTL3, Angiotensin Like Protein 3.

Source: Escherichia Coli.

Purity: Angiotensin 5 purity is greater than 95% as determined by SDS-PAGE.

Purification Method:

One-step procedure using affinity Ni-NTA chromatography.

Specificity:

The amino acid sequence of the ANGPTL3 Human recombinant is 100% homologous to the 17-223 amino acid sequence of the Human Angiotensin-like proteins-3 precursor without signal sequence.

Formulation:

ANGPTL3 Human Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.

Stability:

Store lyophilized ANGPTL3 Human at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted Angiotensin 5 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, ELISA.

Solubility:

Add 0.2 ml of 0.1M Acetate buffer pH-4 and let the lyophilized pellet of ANGPTL3 Human dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10g/ml. In higher concentrations the solubility of Angiotensin 5 is limited.

Introduction:

ANGPTL3 and ANGPTL4 are angiotensin-like proteins secreted and expressed mainly by the liver, their role being 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

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Lipoprotein lipase (LPL) as shown by the experimental data. The molecular structure of ANGPTL3 is similar to that of the angiopoietins (vascular endothelial growth factors). Deletion mutants of human Angiopoietin 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.

Catalog #:CYP5-255

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