
Product Data Sheet

Product Name: ANGPTL3 Human
 Cat. No.: GP20037
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Angiopoietin 5; ANGPT5; ANGPTL3; Angiopoietin Like Protein 3.		
Amino Acid Sequence	<p>MRGSHHHHHH GMASHMSRID QDNSSFDSLS PEPKSRFAML DDVKILANGL LQLGHGLKDF VHKTKGQIND IFQKLNIFDQ SFYDLSLQTS EIKEEEKELR RTTYKLQVKN EEVKNMSLEL NSKLESLEE KILLQQKVKY LEEQLTNLIQ NQPETPEHPE VTSLKTFVEK QDNSIKDLLQ TVEDQYKQLN QQHSQIKEIE NQLRRTSIQE PTEISLSSKP RAP.</p>		
Solubility	<p>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 10μg/ml. In higher concentrations the solubility of Angiopoietin 5 is limited.</p>		
Formulation	ANGPTL3 Human filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.		

Introduction

ANGPTL3 and ANGPTL4 are angiopoietin-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 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store lyophilized ANGPTL3 Human at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted Angiotensin II can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

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 (26-233 a.a.) and 16 additional amino acid residues - His-Tag (underlined).

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