
Product Data Sheet

Product Name: ANGPTL3 Human, HEK
 Cat. No.: GP20038
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Angiotensin 5; ANGPT5; ANGPTL3; Angiotensin Like Protein 3.		
Amino Acid Sequence	SRIDQDNSSF DSLSPEPKSR FAMLDDVKIL ANGLLQLGHG LKDFVHKTKG QINDIFQKLN IFDQSFYDLS LQTSEIKEEE KELRRTTYKL QVKNEEVKNM SLELNSKLES LLEEKILLQQ KVKYLEEQLT NLIQNQPETP EHPEVTSKLT FVEKQDNSIK DLLQTVEDQY KQLNQQHSQI KEIENQLRRT SIQEPTEISL SSKPRAPRTT PFLQLNEIRN VKHDGIPAEC TTIYNRGEHT SGMYAIRPSN SQVFHVVYCDV ISGSPWTLIQ HRIDGSQNFN ETWENYKYGF GRLDGEFWLG LEKIYSIVKQ SNYVLRIELE DWKDNKHIE YSFYLGNET NYTLHLVAIT GNVNPAIPEN KDLVFSTWDH KAKGHFNCPE GYSGGWWWDH ECGENNLNGK YNKPRAKSKP ERRRGLSWKS QNGRLYSIKS TKMLIHPTDS ESFEHHHHHH.		
Solubility	It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

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

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

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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.

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.

Background

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

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