

ANGPTL4/Angiotensin-related 4 Protein, Human (HEK293, His)

Cat. No.:	HY-P7507
Synonyms:	rHuAngiotensin-Related Protein 4, His; ANGPTL4; Angiotensin-Related Protein 4
Species:	Human
Source:	HEK293
Accession:	Q9BY76-1 (P166-S406)
Gene ID:	51129
Molecular Weight:	Approximately 31-38 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> P E M A Q P V D P A H N V S R L H R L P R D C Q E L F Q V G E R Q S G L F E I Q P Q G S P P F L V N C K M T S D G G W T V I Q R R H D G S V D F N R P W E A Y K A G F G D P H G E F W L G L E K V H S I T G D R N S R L A V Q L R D W D G N A E L L Q F S V H L G G E D T A Y S L Q L T A P V A G Q L G A T T V P P S G L S V P F S T W D Q D H D L R R D K N C A K S L S G G W W F G T C S H S N L N G Q Y F R S I P Q Q R Q K L K K G I F W K T W R G R Y Y P L Q A T T M L I Q P M A A E A A S </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Angiotensin-like 4/ANGPTL4 is immobilized at 1 µg/mL, 100 µL/well can bind Recombinant Human LILRB2/CD85d/ILT4. The ED ₅₀ for this effect is 327.9 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 100 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Angiotensin-like proteins (ANGPTLs) represent a family of eight secreted glycoproteins that show structural homology to
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angiopietins and carry distinct physiological functions, including putative roles in lipid metabolism, expansion of stem cells, inflammation, tissue remodeling and angiogenesis. In recent years, three ANGPTLs, ANGPTL3, ANGPTL4 and ANGPTL8, have been shown to play a role in lipid metabolism and in the regulation of plasma lipid levels. ANGPTL4 and ANGPTL8 form a complex when refolded together and that ANGPTL4 in that complex loses its ability to inactivate LPL. Angiopietin-like protein 4 (ANGPTL4) is a secreted 50 kD protein that modulates the disposition of circulating triglycerides (TG) by inhibiting lipoprotein lipase (LPL). ANGPTL4 is a positive acute phase protein and its increase could contribute to the hypertriglyceridemia that characteristically occurs during the acute phase response by inhibiting LPL activity.

REFERENCES

[1]. Michael J Lafferty, et al. Angiopietin-like Protein 4 Inhibition of Lipoprotein Lipase: Evidence for Reversible Complex Formation J Biol Chem. 2013 Oct 4;288(40):28524-34.

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

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