ANGPTL8/Angiopoietin-like 8 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7506
Synonyms:	rHuAngiopoietin-like Protein 8, N-Fc; ANGPTL8; Betatrophin; C19orf81; Angiopoietin-like Protein 8
Species:	Human
Source:	HEK293
Accession:	Q6UXH0 (A22-A198)
Gene ID:	55908
Molecular Weight:	Approximately 54.0 kDa

PROPERTIES

AA Sequence	A P M G G P E L A Q H E E L T L L F H G T L Q L G Q A L N G V Y R T T E G R L T K A R N S L G L Y G R T I E L L G Q E V S R G R D A A Q E L R A S L L E T Q M E E D I L Q L Q A E A T A E V L G E V A Q A Q K V L R D S V Q R L E V Q L R S A W L G P A Y R E F E V L K A H A D K Q S H I L W A L T G H V Q R Q R R E M V A Q Q H R L R Q I Q E R L H T A A L P A
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.4 or 20 mM Tris-HCl, 10% Trehalose, 0.05% Tween 80, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Angiopoietin-like proteins (ANGPTLs) represent a family of eight secreted glycoproteins that show structural homology to angiopoietins 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. We have observed that the C-terminal helix of ANGPTL8 is important for complex formation with ANGPTL3 or ANGPTL4, rather than

for covering the functional site of the protein, as was previously proposed.

REFERENCES

[1]. Kovrov O, et al. On the mechanism of angiopoietin-like protein 8 for control of lipoprotein lipase activity. J Lipid Res. 2019 Apr;60(4):783-793.

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