ANGPTL4/Angiopoietin-related 4 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700655
Synonyms:	ANGPTL4; ARP4; FIAF; HFARP; Angiopoietin like 4; NGPTL2; NL2; PGAR; pp1158; ANG-3; ANG4; AGP4; ANG3; ANG-3; ANG-4;
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_045236104.1 (R164-S406)
Gene ID:	102135390
Molecular Weight:	35-40 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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.
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	ANGPTL4/Angiopoietin-related 4 Protein assumes a pivotal role in the intricate regulation of lipid metabolism by mediating the inactivation of lipoprotein lipase (LPL), thereby contributing to the control of triglyceride clearance from the bloodstream. Beyond its involvement in lipid metabolism, ANGPTL4 may also play a crucial part in regulating glucose homeostasis and insulin sensitivity. Moreover, it exerts inhibitory effects on endothelial cells by impeding proliferation, migration, and tubule formation, ultimately reducing vascular leakage. In vitro studies demonstrate that ANGPTL4, when expressed heterologously, hampers endothelial cell adhesion to the extracellular matrix (ECM), inhibits the reorganization of the actin cytoskeleton, and disrupts the formation of actin stress fibers and focal adhesions. Additionally, ANGPTL4's cleaved form exhibits higher activity in LPL inactivation compared to the uncleaved protein, further emphasizing its multifaceted role in lipid homeostasis and endothelial cell function. Depending on the context, ANGPTL4 may also modulate tumor-related angiogenesis, underscoring its contextual influence on diverse physiological processes.

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

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