

Recombinant Mouse Angiopoietin-like 3, FLAG-tagged

Cat. No. ANGPTL3-401M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Angiopoietin-like 3 is expressed in *HEK 293 cells*. Mature mouse ANGPTL3 (angiopoietin-like protein 3) (aa 17-455) is fused at the N-terminus to a FLAG-tag.

Species Mouse

Source HEK293

ProteinLength 17-455 a.a.

Description The protein encoded by this gene is a member of the angiopoietin-like family of secreted factors. It is predominantly expressed in the liver, and has the characteristic structure of angiopoietins, consisting of a signal peptide, N-terminal coiled-coil domain and the C-terminal fibrinogen (FBN)-like domain. The FBN-like domain in angiopoietin-like 3 protein was shown to bind alpha-5/beta-3 integrins, and this binding induced endothelial cell adhesion and migration. This protein may also play a role in the regulation of angiogenesis. Angptl3 also acts as dual inhibitor of LPL and EL, and increases plasma triglyceride and HDL cholesterol in rodents. ANGPTL3 inhibit endothelial lipase to catalyze HDL-phospholipid and increase HDL-PL levels. Circulating PL-rich HDL particles have high cholesterol efflux abilities. In human, ANGPTL3 is a determinant factor of HDL level and positively correlates with plasma HDL cholesterol.

Purity Greater than 90% as determined by SDS-PAGE.

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Formulation	Liquid. 0.2µm-filtered solution in PBS.
Endotoxin	<1EU/g protein (LAL-test).
Concentration	0.3mg/ml.
Storage	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

GENE INFORMATION

Gene Name	Angptl3 angiopoietin-like 3 [Mus musculus]
Synonyms	angiopoietin-like 3; Angptl3; hyp1; angiopoietin-related protein 3; OTTMUSP00000009086; hypolipidemia; angiopoietin-like protein 3
Gene ID	30924
mRNA Refseq	NM_013913
Protein Refseq	NP_038941
MIM	604774
UniProt ID	Q9R182
Chromosome Location	4 C6
Function	enzyme inhibitor activity; receptor binding

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