

Product datasheet for **TP306566M**

Apolipoprotein CIII (APOC3) (NM_000040) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human apolipoprotein C-III (APOC3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206566 protein sequence Red =Cloning site Green =Tags(s)
	 MQPRVLLVALLALLASARASEAEDASLLSFMQGYMKHATKTAKDALSSVQESQVAQQARGWVTDGFSSL KDYWSTVKDKFSEFWDLDPVRPTSAVAA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	8.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: 29115584)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000031
Locus ID:	345
UniProt ID:	P02656 , A3KPE2
RefSeq Size:	533



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Cytogenetics: 11q23.3

RefSeq ORF: 297

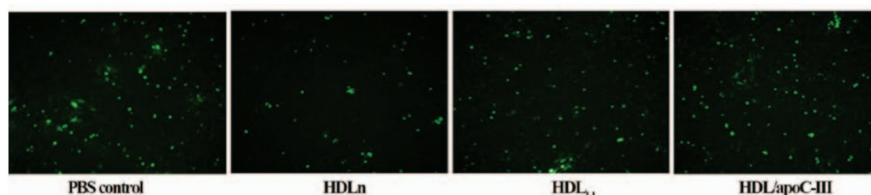
Synonyms: APOCIII

Summary: This gene encodes a protein component of triglyceride (TG)-rich lipoproteins (TRLs) including very low density lipoproteins (VLDL), high density lipoproteins (HDL) and chylomicrons. The encoded protein plays a role in the metabolism of these TRLs through multiple modes. This protein has been shown to promote the secretion of VLDL1, inhibit lipoprotein lipase enzyme activity, and delay catabolism of TRL remnants. Mutations in this gene are associated with low plasma triglyceride levels and reduced risk of ischemic cardiovascular disease, and hyperalphalipoproteinemia, which is characterized by elevated levels of high density lipoprotein (HDL) and HDL cholesterol in human patients. This gene and other related genes comprise an apolipoprotein gene cluster on chromosome 11. [provided by RefSeq, Sep 2017]

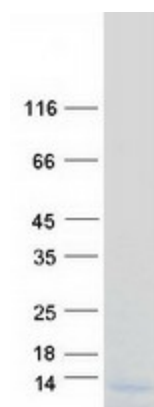
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: PPAR signaling pathway

Product images:



HDL_n inhibits THP-1 cell adhesion, while HDL_{LI} and HDL/apoC-III have impaired inhibitory ability. THP-1 cells adhered to endothelial cells were labeled with a fluorescent dye. HDL_n, HDL from the control group; HDL_{LI}, HDL from patients with lacunar infarction; HDL/apoC-III, HDL with an elevated content of apolipoprotein C-III after incubation of HDL with apoC-III (100 ug/ml, OriGene [TP306566]). Figure cited from Int J Mol Med, PMID: 29115584



Coomassie blue staining of purified APOC3 protein (Cat# [TP306566]). The protein was produced from HEK293T cells transfected with APOC3 cDNA clone (Cat# [RC206566]) using MegaTran 2.0 (Cat# [TT210002]).