



Recombinant Human gAcrp30

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-174S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	9370
Synonyms:	apm-1, Adipolean (human)

gAcrp30 is a naturally occurring globular protein, obtained by proteolytic processing of adiponectin. Adiponectin is produced and secreted exclusively by adipocytes, and is a relatively abundant plasma protein, accounting for up to 0.05% of total serum protein. Like Adiponectin, gAcrp30 is capable of decreasing hyperglycemia and reversing insulin resistance. Additionally, gAcrp30 has been shown to be an important factor in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids (FFAs). The signaling receptors for adiponectin and gAcrp30 have recently been identified and names AdipoR1 and AdipoR2. AdipoR2 is predominantly expressed in the liver. Recombinant human gAcrp30/Adipolean is a 16.6 kDa protein consisting of 145 amino acid residues.

Sequence

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MKGEPGEGAY VYRSAFSVGL ETVVTIPNMP IRFTKIFYNQ  
QNHYDGSTGK FHCNIPGLYY FAYHITVYMK DVKVSFLFKKD  
KAMLFITYDQY QENNVDAQSG SVLLHLEVGD QVWLQVYVGG  
ERNGLYADND NDSTFTGFLL YHDTN
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Database References

Protein RefSeq:	NP_004788.1
Uniprot ID:	Q15848
mRNA RefSeq:	NM_004797.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	145
MW:	16.6 kDa

Biological Activity: Determined by its ability to inhibit the proliferation of murine M1 cells. The expected ED50 for this effect is 1.0-3.0 µg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!