



Recombinant Mouse gAcrp30

20190109BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-063S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	11450
Synonyms:	apm-1

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 mouse gAcrp30 is a 16.6 kDa protein consisting of 145 amino acid residues.

Sequence

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MKGEPEEAAAY MYRSAFVSGL ETRVTVPNVP IRFTKIFYNQ  
QNHYDGGSTGK FYCNIPGLYY FSYHITVYMK DVKVSFLFKKD  
KAVLFITYDQY QEKNVDQASG SVLLHLEVGD QVWLQVYGDG  
DHNGLYADNV NDSTFTGFLL YHDTN
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Database References

Protein RefSeq:	NP_033735.3
Uniprot ID:	Q60994
mRNA RefSeq:	NM_009605.4

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

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in 5mM Tris, pH 7.6 to 0.1-1.0 mg/mL. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by its ability to inhibit the proliferation of murine myeloid cell lines M1. The ED₅₀ for this effect is ≤ 15 µg/ml.