



## gAcrp30 Recombinant Protein

CATALOG NUMBER: 40-487

### Specifications

<b>SPECIES:</b>	Murine
<b>SOURCE SPECIES:</b>	E. coli
<b>SEQUENCE:</b>	MKGEPGEAAY MYRSAFSVGL ETRVTVPNVP IRFTKIFYNQ QNHYDGSTGK FYCNIPGLYY FSYHITVYMK DVKVSLFKKD KAVLFTYDQY QEKNVDQASG SVLLHLEVGD QVWLQVYGDG DHNGLYADNV NDSTFTGFL YHDTN
<b>TESTED APPLICATIONS:</b>	
<b>BIOLOGICAL ACTIVITY:</b>	Biological activity was determined by its ability to inhibit the proliferation of murine myeloid cell lines M1. The ED50 for this effect is < 15 ug/mL.

### Properties

<b>PURITY:</b>	Greater than 98% by SDS-PAGE gel and HPLC analyses.  Endotoxin level is less than 0.1 ng per ug (1EU/ug).
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	The lyophilized gAcrp30 recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted gAcrp30 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing gAcrp30 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

### Additional Info

<b>ALTERNATE NAMES:</b>	APN, Acdc, apM1, 30kDa, GBP28, adipo, Acrp30, Apm1, Adiponectin, 30 kDa adipocyte complement-related protein, ACRP30
<b>ACCESSION NO.:</b>	NP_033735.3
<b>PROTEIN GI NO.:</b>	87252711

### Background

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

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