



## Adiponectin, globular, human recombinant (rHugAcrp30)

**Catalog No:** 08564  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Acrp30, AdipoQ, GBP-28, APM-1, ACDC

### Background

gAcrp30 globular protein, exists as a result of proteolytic processing of adiponectin. Adiponectin is manufactured and secreted solely by adipocytes, and is a highly obtained plasma protein, accounting for up to 0.05% of total serum protein. Similar to Adiponectin, gAcrp30 is able of lowering hyperglycemia and reversing insulin resistance. In addition, gAcrp30 is an significant protein that is involved in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids. AdipoR1 & AdipoR2 are the 2 signaling receptors for adiponectin and gAcrp30 that were recently been identified.

### Description

gAcrp30 human recombinant produced in *E. coli* is a homodimeric, non-glycosylated, polypeptide chain containing 145 amino acids and having a molecular mass of 16690 Dalton. gAcrp30 is purified by proprietary chromatographic techniques.

### Formulation

Sterile filtered and lyophilized from 1 mg/ml in 10 mM Tris pH 8 and 0.75 mM DTT.

### Solubility

We recommend reconstituting gAcrp30 at a concentration of 0.1-1 mg per ml with 5 mM Tris pH-8 and 0.75 mM DTT which can then be further diluted to other aqueous solutions.

### Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time two weeks.

### Purity

Greater than 97% as determined by HPLC and SDS PAGE.

### Amino Acid Sequence

MKGEPEGAY VYRSAFSVGL ETYVTIPNMP IRFTKIFYNQ QNHYDGSTGK FHCNIPGLYY FAYHITVYMK DVKVSFLFKKD  
KAMLFTYDQY QENNVDQASG SVLLHLEVG D QVWLQVYEGE ERNGLYADND NDSTFTGFLL YHDTN

### Activity

gAcrp30 activity is determined by its ability to inhibit the proliferation of mouse M1 cells. The expected ED50 for this effect is 1.0 - 2.5 µg/ml.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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