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## Product Data Sheet

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Product Name: Acrp30 Mouse  
 Cat. No.: GP26003  
 Batch No.: 1

### Product Data

|                     |  |                    |               |
|---------------------|--|--------------------|---------------|
| Purity              | >98%   | Source             | HEK293 cells. |
| Physical Appearance | solid  | Shipping Condition | atRoomtemp.   |
| Synonyms            | Acrp30, AdipoQ, GBP-28, APM-1, ACDC.   |                    |               |
| Amino Acid Sequence | EDDVTTEEL APALVPPPKG TCAGWMAGIP GHPGHNGTPG RDGRDGTPGE<br>KGEKGDAGLL GPKGETGDVG MTGAEGPRGF PGTPGRKGEP GEAYVYRSA<br>FSVGLETRVT VPNVPIRFTK IFYNQQNHVD GSTGKFYCNI PGLYYFSYHI<br>TVYMKDVKVS LFKKDKAVLF TYDQYQEKV DQASGSVLLH LEVGDQVWLQ<br>VYGDGDHNGL YADNVNDSTF TGFLLYHDTN. |                    |               |
| Solubility          | It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.   |                    |               |
| Formulation         | Acrp30 filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml in 20mM Tris 50mM NaCl and 1mM CaCl <sub>2</sub> , pH 7.5.   |                    |               |

### Introduction

Adiponectin, also known as Acrp30, AdipoQ and GBP-28, is a 244 amino acid protein, the product of the apM1 gene, which is physiologically active and specifically and highly expressed in adipose cells (Adipokine). Adiponectin is a part of the soluble defense collagen super family; it has a collagen-like domain structurally homologous with collagen VIII and X and complement factor C1q-like globular domain. APM-1 forms homotrimers, which are the building blocks for higher order complexes found circulating in serum.

### Biological Activity

Measured by its ability to inhibit proliferation of mouse 3T3 fibroblasts stimulated by PDGF. The ED50 for the effect is typically 5-15  $\mu$ g/mL.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### 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; it does not show any change after two weeks at 4°C.

### Background

Acrp30 Mouse Recombinant is a single, glycosylated polypeptide chain containing 230 amino acids (18-247a.a) and having a molecular mass of 24.9kDa (calculated).

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