

**Globular Adiponectin Mouse Recombinant**

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| Catalogue Number    | IY-432                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Synonyms            | Acrp30, AdipoQ, GBP-28, APM-1, ACDC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Introduction        | <p>Adiponectin (247amino acids) is adipocyte complement-related protein of 30 kDa and exclusively expressed in differentiated adipocytes. APM-1 (Acrp30 Mouse) is a member of the complement factor C1q family and consists of signal sequence, Non-homologous sequence, collagen domain and domain (gAcrp30).</p> <p>Adiponectin expression is reduced in a variety of obese and insulin-resistant states in human, monkeys and mice. Injection of Acrp30 Mouse (247aa) or gAcrp30 (globular domain) lowers serum glucose and free fatty acid level in mice.</p> |
| Patent Rights       | The sale and/or commercial use of Recombinant Adiponectin is prohibited in the United States of America (U.S.A).                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description         | The globular domain of Adiponectin Mouse Recombinant / Acrp30 Mouse contains 138 amino acid residues from a.a. 111-247 having molecular mass of 16 kDa was over expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                 |
| Source              | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Physical Appearance | Sterile filtered colorless solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Formulation         | Acrp30 Mouse (1mg/ml) solution containing 20mM Tris-HCl pH7.5, 50mM NaCl, 5mM DTT and 10% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Stability           | <p>Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.</p> <p>For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).</p> <p>Avoid multiple freeze-thaw cycles.</p>                                                                                                                                                                                                                                                                                                         |
| Purity              | Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Amino Acid Sequence | MAYMYRSAFS VGLETRVTV NPVPIRFTKIF YNQQNHVDGS TGKFYCNIPG<br>LYYFSYHITVYMKDVKVSLF KKDKAVLFY DQYQEKVDQ ASGSVLLHLE<br>VGDQVWLQVY GDGDHNGLYADNVNDSTFTG FLLYHDTN.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Usage               | Products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.                                                                                                                                                                                                                                                                                                                                                                                        |