

Product Datasheet

RecombinantgAcrp30/Adipolean,Mouse (orb1494861)

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| Catalog Number | orb1494861 |
| Category | Proteins |
| Description | <p>gAcrp30 is the globular head domain of Adipocyte complement-related protein of 30 kDa (Acrp30), a cytokine expressed in adipocytes. The name of Acrp30 is based on its closest homolog, complement factor c1q, and the globular domain of Acrp30 has an unexpected homology with the Tumor Necrosis Factor (TNF) family of cytokines. Acrp30 is recognized by two receptors: adipoR1 expressed in skeletal muscle, and adipoR2 expressed in liver. The expression level of Acrp30 in adipocytes is negatively correlated with body weight and is lower in obese mouse than normal mouse. The globular domain of Acrp30 induces free fatty acid oxidation in muscle and weight reduction in mouse, suggesting its potential use as a pharmacological agent in obesity. Recombinant mouse gAcrp30 (rmgAcrp30) produced in E.coli is a single non-glycosylated polypeptide chain containing 144 amino acids. A fully biologically active molecule, rmgAcrp30 has a molecular mass of 16.5 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.</p> |
| Form/Appearance | Lyophilized after extensive dialysis against PBS. |
| Buffer/Preservatives | Lyophilized after extensive dialysis against PBS. |
| Purity | > 95% by SDS-PAGE and HPLC analyses. |
| Purification | > 95% by SDS-PAGE and HPLC analyses. |
| Protein Sequence | KGE PGEAAYMYRS AFSVGLLETRV TVPNVPIRFT KIFYNQQNHY DGSTGKFYCN IPGLYFFSYH ITVYMKDVKV SLFKKDKAVL FTYDQYQEKV VDAQSGSVLL HLEVGDQVWL QVYGDGDHNG LYADNVNDST FTGFLLYHDT N |
| MW | 16.5 kDa, observed by non-reducing SDS-PAGE. |

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| Application notes | Reconstituted in ddH ₂ O at 100 µg/mL. |
| Endotoxins | 0.2 EU/µg, determined by LAL method. |
| Source | Escherichia coli. |
| Biological Activity | ED ₅₀ 500 units/mg. |
| Storage | Lyophilized recombinant mouse gAcrp30 (rmgAcrp30) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmgAcrp30 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C. |
| Note | For research use only |
| Expiration Date | 6 months from date of receipt. |

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