

Product Datasheet

RecombinantgAcrp30/Adipoolean,Mouse (orb1494861)

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 bases 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 of 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 PGEEAAYMYRS AFSVGLETRV TVPNVPIRFT KIFYNQQNHY DGSTGKFYCN IPGLYYFSYH ITVYMKDVKV SLFKKDKAVL FTYDQYQEKV VDQASGSVLL HLEVG DQVWL QVYGDGDHNG LYADNVNDST FTGFLLYHDT N
MW	16.5 kDa, observed by non-reducing SDS-PAGE.

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Application notes	Reconstituted in ddH2O at 100 µg/mL.
Endotoxins	0.2 EU/µg, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 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

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