

Product Datasheet

RecombinantgAcrp30/Adipolean, Human (orb1494862)

Catalog Number	orb1494862
Category	Proteins
Description	<p>gAcrp30/Adipolean 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 homolog with the Tumor Necrosis Factor (TNF) family of cytokines. Acrp30 is the isoform of adiponectin, and shares the two receptors with adiponectin: 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, therefore shows potential pharmacological effects in obesity. Recombinant human gAcrp30/Adipolean (rhgAcrp30) produced in E.coli is a single non-glycosylated polypeptide chain containing 144 amino acids. A fully biologically active molecule, rhgAcrp30 has a molecular mass of 16.6 kDa analyzed by 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 analysis.
Purification	> 95% by SDS-PAGE analysis.
Protein Sequence	KGE PGEGAYVYRS AFSVGLLETIV TIPNMPPIRFT KIFYNQNH Y DGSTGKFHCN IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN VDQASGSVLL HLEVGDQVWL QVYGEGERNG LYADNDNDST FTGFLLYHDT N

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MW	16.6 kDa, observed by reducing SDS-PAGE.
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	ED50 100 units/mg.
Storage	Lyophilized recombinant human gAcrp30/Adipolean (rhgAcrp30) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhgAcrp30 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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