

Product Datasheet

RecombinantgAcrp30/Adipolean, Human (orb1494862)

Description

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.

Endotoxins

< 0.2 EU/μg, determined by LAL method.

Preservatives

Lyophilized after extensive dialysis against PBS.

Form/Appearance

Lyophilized after extensive dialysis against PBS.

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

Application notes

Reconstituted in ddH₂O at 100 μg/mL.

Protein Sequence

KGE PGEGAYVYRS AFSVGLLETIV TIPNMPPIRFT KIFYNQNHY DGSTGKFHCN
IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN VDQASGSVLL
HLEVGDQVWL QVYGEGERNG LYADNDNDST FTGFLLYHDT N

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Purity	> 95% by SDS-PAGE analysis.
Source	Escherichia coli.
MW	16.6 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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