

# gAcp30/Adipolean

Catalog # PVGS1360

## Product Information

---

<b>Primary Accession</b>	<a href="#">Q60994</a>
<b>Species</b>	Mouse
<b>Sequence</b>	Lys104-Asn247 (Val113Met)
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	
<b>Expression System</b>	E. coli
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 µg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Additional Information

---

<b>Gene ID</b>	11450
<b>Other Names</b>	Adiponectin, 30 kDa adipocyte complement-related protein, Adipocyte complement-related 30 kDa protein, ACRP30, Adipocyte, C1q and collagen domain-containing protein, Adipocyte-specific protein AdipoQ, Adipoq, Acdc, Acp30, Apm1
<b>Target Background</b>	gAcp30 is the globular head domain of Adipocyte complement-related protein of 30 kDa (Acp30), a cytokine expressed in adipocytes. The name of Acp30 is based on its closest homolog, complement factor c1q, and the globular domain of Acp30 has an unexpected homology with the Tumor Necrosis Factor (TNF) family of cytokines. Acp30 is recognized by two receptors: adipoR1 expressed in skeletal muscle, and adipoR2 expressed in liver. The expression level of Acp30 in adipocytes is negatively correlated with body weight and is lower in obese mouse than normal mouse. The globular domain of Acp30 induces free fatty acid oxidation in muscle and weight reduction in mouse, suggesting its potential use as a pharmacological agent in obesity.

## Protein Information

---

<b>Name</b>	Adipoq
<b>Synonyms</b>	Acdc, Acrp30, Apm1
<b>Function</b>	Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.
<b>Cellular Location</b>	Secreted.
<b>Tissue Location</b>	Synthesized exclusively by adipocytes and secreted into plasma

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.