Product Information Sheet

Recombinant Human gAcrp30/Adipolean

Catalog# 450-21

Source: *E.coli*

**Description:** gAcrp30 is a naturally occurring globular protein, obtained by proteolytic processing of adiponectin. Adiponectin is produced and secreted exclusively by adipocytes, and is a relatively abundant plasma protein, accounting for up to 0.05% of total serum protein. Like Adiponectin, gAcrp30 is capable of decreasing hyperglycemia and reversing insulin resistance. Additionally, gAcrp30 has been shown to be an important factor in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids (FFAs). The signaling receptors for adiponectin and gAcrp30 have recently been identified and names AdipoR1 and AdipoR2. AdipoR2 is predominantly expressed in the liver. Recombinant human gAcrp30/Adipolean is a 16.6 kDa protein consisting of 145 amino acid residues.

**Synonyms:** apm-1, Adipolean (human)

**Sequence:** MKGEPGEGAY VRSSAFVGL ETYVTIPNMP IRFTKIFYNQ QNNYDGSTGK FHCNIPGYY FAYHITVYMMDKVMLFTYDQY QENNVDQASG SVLLHLEVGD QWVLQVYGENRNGLYADND NDSTFTGFILL YHDIN

**Authenticity:** Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Purity:** ≥ 98% by SDS-PAGE gel and HPLC analyses.

**Endotoxin:** Endotoxin level is < 0.2 ng/µg of protein (<2EU/µg).

**Protein Content:** Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Biological activity:** Determined by its ability to inhibit the proliferation of murine M1 cells. The expected ED$_{50}$ for this effect is 1.0-3.0 µg/ml.

For a list of references please visit our website at www.peprotech.com

**Country of Origin:** USA

**Storage/Stability:**

<table>
<thead>
<tr>
<th>Product Form</th>
<th>Temperature</th>
<th>Storage Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyophilized</td>
<td>-20°C to -80°C</td>
<td>See expiration date</td>
</tr>
<tr>
<td>Lyophilized</td>
<td>4°C</td>
<td>6 months</td>
</tr>
<tr>
<td>Lyophilized</td>
<td>RT</td>
<td>1 month</td>
</tr>
<tr>
<td>Diluted as per CoA</td>
<td>-20°C to -80°C</td>
<td>12 months</td>
</tr>
<tr>
<td>Diluted as per CoA</td>
<td>2°C to 8°C</td>
<td>1 week</td>
</tr>
</tbody>
</table>

**Avoid repeated freeze-thaw cycles.**

Lot-specific information is not available on Product Information Sheet. See Certificate of Analysis for details.

**Usage:** For Research Use Only. Not for use in diagnostic or therapeutic procedures.