Recombinant Human gAcrp30/Adipolean Variant

Catalog# 450-20

Source: E.coli

Description: The gAcrp30 variant 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, Acrp30 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. This naturally occurring variant of human gAcrp30/Adipolean is an 18.1 kDa protein, containing 14 amino acids extra at the N-terminus of human gAcrp30/Adipolean.

Synonyms: apm-1 variant

Sequence: PGAEGPRGFP GQGVRGEPQ EGAYVYRSAF SVGLETYVTI PNMPRFTKI FYNQHNYDG STGKFHNIP GLYYFAHIT VVMKDKKFLF FKKDKAMLFT YDQYQENNVD QASGSQLHLO EVGDQVLWLV QEGGRRGGLY ADNNDSTFT GFLLYHDTN

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

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

Endotoxin: Endotoxin level is < 0.1 ng/µg of protein (<1EU/µg).

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

Biological activity: Determined by a cytotoxicity assay using M1 cells. The expected ED_{50} for this effect is 0.5-1.0 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>
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<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>
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</tbody>
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**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.