

**RELIA**Tech GmbH  
Lindenerstr. 15  
38300 Wolfenbüttel  
Germany

Tel.: +49 5331 8586 987  
Fax.: +49 5331 8586 989  
Email: [info@reliatech.de](mailto:info@reliatech.de)  
web: [www.reliatech.de](http://www.reliatech.de)

## Recombinant Human Adiponectin

**Description:** Adiponectin is an adipose-derived secreted protein containing 226 amino acid residues. It is relatively abundant in humans and rodents, accounting for about 0.01% of total plasma protein. The circulating levels of adiponectin are decreased under conditions of obesity, insulin resistance, and type II diabetes. Disruption of adiponectin in mice causes insulin resistance and neointimal formation. Conversely, administration of recombinant adiponectin suppresses hepatic glucose production, and reverses insulin resistance associated with both lipoatrophy and obesity. The protective role of adiponectin is attributed to its anti-inflammatory properties (e.g. ability to suppress expression of TNF- $\alpha$  and class A scavenger receptor in macrophages). Recombinant adiponectin is a multimeric glycoprotein containing amino acids Glu-19 to Asn-244 of the adiponectin precursor protein fused to an N-terminal histidine tag. Monomeric glycosylated adiponectin migrates at an apparent molecular weight of approximately 35.0 kDa by SDS PAGE analysis under reducing conditions.

<b>Source:</b>	Insect cells
<b>Molecular Weight:</b>	35.0 kDa
<b>Purity:</b>	> 98% by SDS-PAGE analyses
<b>Endotoxin level:</b>	< 0.1 ng per $\mu$ g of Adiponectin
<b>Stabilizer:</b>	none
<b>Formulation:</b>	lyophilized

**Biological Activity:** Determined by a cytotoxic assay using M1 cells. The **ED**<sub>50</sub> for this effect is 3.0-6.0  $\mu$ g/ml.

**Stability:** The lyophilized protein is stable for at least 2 years from date of receipt at -20<sup>0</sup>C. Reconstituted Adiponectin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20<sup>0</sup>C. Avoid repeated freeze/thaw cycles.

**Avoid repeated freeze-thaw cycles.**

**Usage:** Human Adiponectin is offered for research use. Not for drug use. **Not for human use.**

**Catalogue number:** 100-121

**Size:** 25  $\mu$ g

**\*\*please note: always centrifuge product before opening Vial.\*\***