

Adiponectin Protein, Human, Recombinant

General Information

Synonyms:	Apm-1;GBP-28;Acrp-30
Protein Construction:	Lys101-Asn244
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q15848
Molecular Weight:	16~17 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 2.0 µg/ml, measured in a cell proliferation assay using M1 cells.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Adiponectin is an important adipokine involved in the control of fat metabolism and insulin sensitivity. It is synthesized exclusively by adipocytes and secreted into plasma. It antagonizes THF- α by negatively regulating its expression. It also inhibits endothelial NF- κ -B signaling through a cAMP-dependent pathway. Adiponectin can form low molecular weight complexes (LMW), middle molecular weight complexes (MMW) and higher molecular weight complexes (HMW). These bind to various growth factors, such as HBEGF, PDGFB and FGF2, and play a role in cell growth, angiogenesis and tissue remodeling.

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