

## Adiponectin/ACRP30, Human

**Cat.no.** PK0156

**Product size:** 10ug 50ug 1mg

**Source:** CHO

**Species:** Human

**Biological Activity:** ED50 < 20µg/ml, measured in a cell growth inhibition assay using M1 cells.

**Molecular Weight:** 25~28 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Human Adiponectin remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Adiponectin should be stable up to 1 week at 4°C or up to 2 months at -20°C.

**Description:** 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- $\alpha$  by negatively regulating its expression. It also inhibits endothelial NF- $\kappa$ -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.

**Amino Acid Sequence:**

00001 ETTTQGGV LPLPKGACTG WMAGIPGHPG HNGAPGRDGR

00041 DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ

00081 GRKGEPGEA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN

00121 QQNHYDGGTGF KFHCCNIPGLY YFAYHITVYM KDVKVSLFKK

00161 DKAMLFTYDQ YQENNVDDQAS GSVLLHLEVG DQVWLQVYGE

00201 GERNGLYADN DNDSTFTGFL LYHDTN

**Synonyms:** Adiponectin, 30 kDa adipocyte complement-related protein, Adipocyte complement-related 30 kDa protein, ACRP30, Adipocyte, C1q and collagen domain-containing protein, Adipose most abundant gene transcript 1 protein, apM-1, apM1, Gelatin-binding protein, ADIPOQ, ACDC, ACRP30, APM1, GBP28

**Note:** For research use only, not for use in diagnostic procedure.