

**DATASHEET**  
Version 20181206**Adiponectin, Human(CHO-expressed)****Cat. No.:** Z03119-1**Size:** 1.0 mg**Synonyms:** Acrp-30, GBP-28, Apm-1**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 ETTTQGPGL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR
00041 DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ
00081 GRKGEPGEKA YVYRSFVSFG LETYVTIPNM PIRFTKIFYN
00121 QQNHVDGSTG KFHCHNIPGL YFAYHITVYM KDVKVSFLFKK
00161 DKAMLFYTDQ YQENNVDAQS GSVLLHLEVG DQVWLQVYGE
00201 GERNGLYADN DNDSTFTGFL LYHDTN
```

**Source:** CHO**Species:** Human**Biological Activity:** ED<sub>50</sub> < 20  $\mu$ g/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  $\mu$ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.**Endotoxin Level:** < 0.2 EU/ $\mu$ g, 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.