

# Product information

## Adiponectin, 15-244 aa

Human, Recombinant, *E.coli*

Cat. No. IBADI0501

**Synonyms:** AdipoQ, ACDC, ACRP30, APM1, GBP28

**NCBI Accession No.:** NP\_004788

**Description:** Human Adiponectin, also referred to as AdipoQ, Acrp30, apm-1 or GBP28, is a secreted Protein expressed exclusively in differentiated adipocyte(adipokine). Adiponectin contains a modular structure comprising an N-terminal collagenous domain followed by a C-terminal globular domain. Adiponectin plays a role in various physiological processes such as energy homeostasis and obesity. Plasma levels of adiponectin are reduced in obese humans, and decreased levels are associated with insulin resistance and hyperinsulinemia. Recombinant human Adiponectin protein was expressed in *E.coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

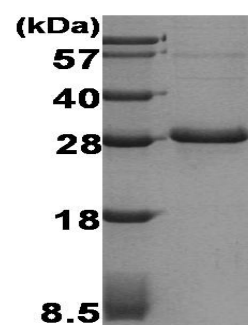
**Form:** Liquid. In phosphate-buffered saline(pH 7.4) containing 1 mM DTT,

**Molecular Weight:** 25.1 kDa (231 aa)

**Purity:** > 90% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1 µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGHDQETTTQ GPGVLLPLPK GACTGWMAGI PGHPGHNGAP GRDGRDTPG EKGEKGDPLG IGPKGDIGET GVPGAEGPRG FPGIQGRKGE  
 PGEGAYVYRS AFSVGLETYV TIPNMPIRFT KIFYNQNHY DGSTGKFHCN IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN  
 VDQASGSVLL HLEVGDAQWL QVYGEGERNG LYADNDNDST FTGFLLYHDT N

### General references:

Maeda K., *et al.* (1996) *Biochem Biophys Res Commun.* **221**:286-9.

Berg AH., *et al.* (2001) *Nat Med*; **7**:947-53

Berg AH., *et al.* (2002) *Trends Endocrinol Metab.* **13**: 84-89.

Yamauchi T *et al.*, (2002) *Nat Med.* **8**:1288-95

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**