



Recombinant Protein Technical Manual
Recombinant Mouse Adiponectin/AdipoQ Protein
(E. coli, His Tag)
RPES4743

Product Data:

Product SKU: RPES4743

Size: 10µg

Species: Mouse

Expression host: E. coli

Uniprot: Q60994

Protein Information:

Molecular Mass: 27.2 kDa

AP Molecular Mass: 30 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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; Gelatin-Binding Protein; ADIPOQ

Immunogen Information:

Sequence: Glu18-Asn247

Background:

Adiponectin is a secreted protein. It is synthesized exclusively by adipocytes and secreted into plasma. Adiponectin is an important adipokine that is involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Adiponectin stimulates AMPK phosphorylation and activates in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Adiponectin also antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. It inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. Adiponectin may play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex: LMW, MMW or HMW.