

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

Catalog No. PKSM040960

Note: Centrifuge before opening to ensure complete recovery of vial contents.

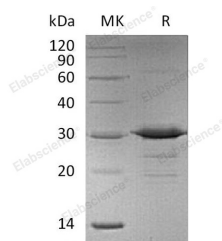
Description

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;Gelatin-Binding Protein;ADIPOQ
Species	Mouse
Expression Host	E.coli
Sequence	Glu18-Asn247
Accession	Q60994
Calculated Molecular Weight	27.2 kDa
Observed molecular weight	30 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

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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- α by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. It inhibits endothelial NF- κ -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.

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