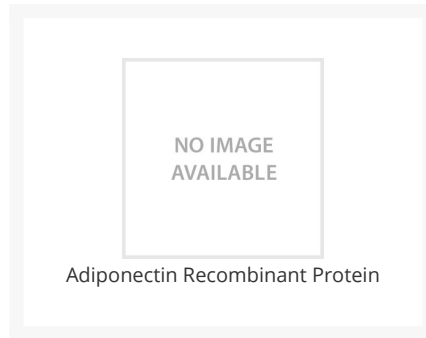




Adiponectin Recombinant Protein

Cat. No.: 91-501



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	Human Cells
SEQUENCE:	Glu19-Asn244
FUSION TAG:	C-6 His tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.
PREDICTED MOLECULAR WEIGHT:	25.58 kD

Ψ Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.2. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH2O.

STORAGE CONDITIONS:	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
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Additional Info

OFFICIAL SYMBOL:	ADIPOQ
ALTERNATE NAMES:	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, ACDC, APM1, GBP28
ACCESSION NO.:	Q15848
PROTEIN GI NO.:	767928039
GENE ID:	9370

Background and References

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.
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