Adiponectin with His Tag: Human, Recombinant Protein

Catalog Number:	1011-E2-ADPN
Product Specification:	Adiponectin with His Tag: Human Recombinant Protein
Species:	Human
Expression System	E. coli
Purity (by SDS-PAGE):	98%
Molecular Weight:	26400 Da (calculated)
Size:	100 µg
Applications:	WB, ELISA, Cell culture
Formulation:	Filtered (0.22 µm) and lyophilized in 1 mg/mL in PBS
Reconstitution:	Reconstitute at 1mg/mL in sterile water containing at least 0.1% human or bovine serum albumin.
Storage:	Store lyophilized and reconstituted proteins at -20°C for Long Term and at 4°C for < 2weeks. Avoid repeated freezing/thawing cycles.
Sequence:	MRGSHHHHHH GSGHDQETTT QGPGVLLPLP KGACTGWMAG IPGHPGHNGA PGRDGRDGTP GEKGEKGDPG LIGPKGDIGE TGVPGAEGPR GFPGIQGRKG EPGEGAYVYR SAFSVGLETY VTIPNMPIRF TKIFYNQQNH YDGSTGKFHC NIPGLYYFAY HITVYMKDVK VSLFKKDKAM LFTYDQYQEN NVDQASGSVL LHLEVGDQVW LQVYGEGERN GLYADNDNDS TFTGFLLYHD TN . Total 242 aa

Related Products:

1011-E1-ADPN	Adiponectin with *Flag* Tag: Human Recomb, in HEK293
1011-E3-ADPN	Adiponectin with Flag Tag: **Mouse** Recomb, in E.coli
1011-E4-ADPN	Adiponectin with His Tag: **Mouse** Recomb, in E.coli

Background:

Adiponectin, also known as apM1, Acrp30, GBP28 and adipoQ, is a circulating hormone predominantly produced from adipose tissue. Many pharmacological studies demonstrated that this protein possesses potent anti-diabetic, anti-atherogenic and anti-inflammatory functions. Supplement of adiponectin protein can decrease blood glucose, improve insulin sensitivity, alleviate fatty liver and prevent atherosclerosis. The protein is post-translationally modified by hydroxylation and glycosylation, and forms three different oligomeric complexes in the

circulation. Many clinical studies demonstrated that plasma adiponectin is an useful biomarker for metabolic syndrome, nonalcoholic steatohepatitis and certain type of cancers. Decreased circulating levels of plasma adiponectin (hypoadiponectinaemia) are associated with increased body mass index (BMI), decreased insulin sensitivity, less favourable plasma lipid profiles, increased levels of inflammatory markers and increased risk for the development of type 2 diabetes, hypertension, and coronary heart diseases. Low adiponectin concentrations were found to be predictive of a future reduction in insulin sensitivity and cardiovascular disorders. Administration of the anti-diabetic drugs thiazolidinediones (TZDs) raises circulating adiponectin levels. In addition, low plasma adiponectin levels are also associated with nonalcoholic steatohepatitis (NASH) and certain types of cancers.

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