

Active Recombinant Human ADIPOQ Protein

Cat. No. ADIPOQ-300A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADIPOQ Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Adiponectin is an important adipokine involved in the control of fat metabolism and insulin sensitivity. It is synthesized exclusively by adipocytes and secreted into plasma. It antagonizes THF-alpha by negatively regulating its expression. It also inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. Adiponectin can form low molecular weight complexes (LMW), middle molecular weight complexes (MMW) and higher molecular weight complexes (HMW). These bind to various growth factors, such as HBEGF, PDGFB and FGF2, and play a role in cell growth, angiogenesis and tissue remodeling.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2 ng/mL, measured in a cell growth inhibition assay using M1 cells.
Molecular Mass	25~28 kDa, observed by reducing SDS-PAGE.
AA Sequence	ETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGPGEKGEKGDGP LIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLETYVTIPNMP IRFTKIFYNQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDKAMLFTYD QYQENNVDAQSGSVLLHLEVGDAQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human Adiponectin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Adiponectin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens]
Official Symbol	ADIPOQ
Synonyms	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC, adipocyte, C1Q and collagen domain containing; adiponectin; ACRP30; AdipoQ; adipose most abundant gene transcript 1; apM1; GBP28; gelatin-binding protein 28; adipose specific collagen-like factor; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipose most abundant gene transcript 1 protein; ACDC; ADPN; APM1; APM-1; ADIPQTL1;
Gene ID	9370
mRNA Refseq	NM_001177800

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Protein Refseq	NP_001171271
MIM	605441
UniProt ID	Q15848

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