

Active Recombinant Human ADIPOQ Protein

Cat. No. ADIPOQ-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADIPOQ Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The globular subunit of adipocyte complement-related protein of 30 kDa (ACRP-30) is a naturally occurring cleavage product of adiponectin, a protein made exclusively by adipocytes. ACRP-30 is an abundant serum protein and plays an important role in hyperglycemia, insulin resistance, and fatty acid oxidation. ACRP-30 signals through adiponectin receptor 1 (AdipoR1) and adiponectin receptor 2 (AdipoR2).
Bio-activity	Inhibition of M1 Cell Proliferation, ED50≤2,000 ng/mL; ≥500 units/mg
Molecular Mass	Monomer, 16.7 kDa (145 aa)
AA Sequence	MKGEPGEGAYVYRSAFSVGLETYVTIPNMPPIRFTKIFYNQQNHYDGSTGKFHCNIPG LYYFAYHITVYMKDVKVSLFKKDKAMLFTYDQYQENNVDQASGSVLLHLEVG DQVW LQVYGEGERNGLYADNDNDSTFTGFLLYHDTN
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥90%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 0.5 mM DTT, pH 7.5
Reconstitution	Sterile 10 mM sodium phosphate, 0.5 mM DTT, pH 7.5 at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens (human)]
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;

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Gene ID	9370
mRNA Refseq	NM_001177800
Protein Refseq	NP_001171271
MIM	605441
UniProt ID	Q15848

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