

Recombinant Human ADIPOQ, Globular Domain, His-tagged

Cat. No. ADIPOQ-42H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human globular domain of Adiponectin has total 171 amino acids. N-terminal underlined amino acids are His-tag and the protease cleavage site (31AA-Underlined). The AA sequence is homologous to the 105-244 amino acid sequence of the Human full-length Adiponectin.
Species	Human
Source	E.coli
ProteinLength	105-244 a.a.
Description	Adiponectin is a protein exclusively secreted from adipose tissue. In the circulation, adiponectin is present as three different oligomeric complexes, including the high molecular weight (HMW), the middle molecular weight (MMW, also called hexamer) and low molecular weight (LMW, also called trimer) forms. Different oligomeric complex of adiponectin activates different signaling pathways and exerts distinct functions.
Amino Acid Sequence	MSWWHHHHHH NWNIPPTQDT TQDLWFEGAM GGEGAYVYRS FSVGLETYV TIPNMPPIRFT KIFYNQNHYDGGSTGKFHCN IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN VDQASGSVLL HEVGDQVWLQVYGEGERNGL YADNDNDSTF TGFLLYHDTN.
Purity	Greater than 95% as determined by HPLC and SDS PAGE.

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Formulation	Sterile filtered and lyophilized from 0.6 mg/ml in PBS buffer.
Solubility	Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely.
Applications	ELISA, Western blotting, cell culture and/or animal studies.
Storage	For long term, store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized APM-1 remains stable for 24 months when stored at -20°C.

GENE INFORMATION

Gene Name	ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens]
Synonyms	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; APM1
Gene ID	9370
mRNA Refseq	NM_004797
Protein Refseq	NP_004788
UniProt ID	Q15848
Chromosome Location	3q27
MIM	605441

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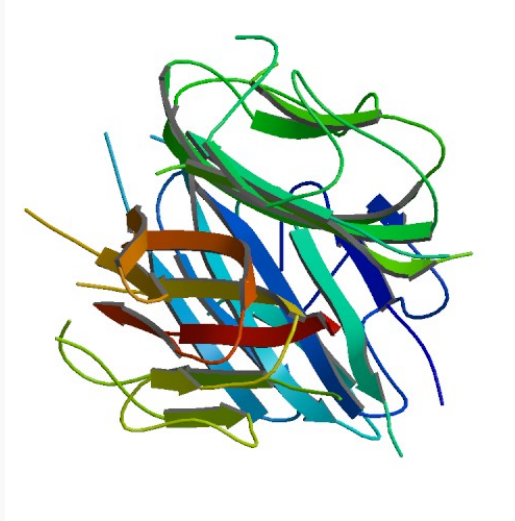
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Pathway Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus

Function cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity

PDB rendering based on 1c28.



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