

## Recombinant Human ADIPOQ, His-tagged

Cat. No. ADIPOQ-3647H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Total 444 AA. MW: 4903 kDa (calculated). N-Terminal His-tag, 8 extra AA (highlighted).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes.
<b>Form</b>	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer, 20mM NaCl, pH 7.5.
<b>Purity</b>	>95%
<b>Reconstitution</b>	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
<b>Applications</b>	Western blotting
<b>Quality Control Test</b>	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

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**Sequences of amino acids**

MKHHHHHHAS VAVDPQPSVV TRVVNLPLVS STYDLMSSAY LSTKDQYPYL  
 KSVCEMAENG VKTITSVAMT SALPIIQKLE PQIAVANTYA CKGLDRIEER  
 LPILNQPSTQ IVANAKGAVT GAKDAVTTTV TGAKDSVAST ITGVMDKTKG  
 AVTGSVEKTK SVVSGSINTV LGSRRMQLVS SGVENALTKS ELLVEQYLPL  
 TEEELEKEAK KVEGFDLVQK PSYYVRLGSL STKLHSRAYQ QALSRVKEAK  
 QKSQQTISQL HSTVHLIEFA RKNVYSANQK IQDAQDKLYL SWVEWKRSIG  
 YDDTDESHCA EHIESRTLAI ARNLTQQLQT TCHTLLSNIQ GVPQNIQDQA  
 KHMGVMAGDI YSVFRNAASF KEVSDSLLTS SKGQLQKMKE SLDDVMDYLV  
 NNTPLNWLVG PFYPQLTESQ NAQDQGAEMD KSSQETQRSE HKTH

**Storage**

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

**Pathways**

Adipocytokine signaling pathway; Adipogenesis; Diabetes pathways; PPAR signaling pathway; Transcriptional Regulation of White Adipocyte Differentiation; Type II diabetes mellitus

## GENE INFORMATION

**Gene Name**

ADIPOQ adiponectin, C1Q and collagen domain containing [ Homo sapiens ]

**Official Symbol**

ADIPOQ

**Synonyms**

ADIPOQ; adiponectin, C1Q and collagen domain containing provided; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; OTTHUMP00000210047; OTTHUMP00000210048; gelatin-binding protein 28; adipose specific collagen-like factor; 30 kDa adipocyte complement-related protein; adipocyte complement-related

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30 kDa protein; adipose most abundant gene transcript 1 protein

**Gene ID** [9370](#)

**mRNA Refseq** [NM\\_004797](#)

**Protein Refseq** [NP\\_004788](#)

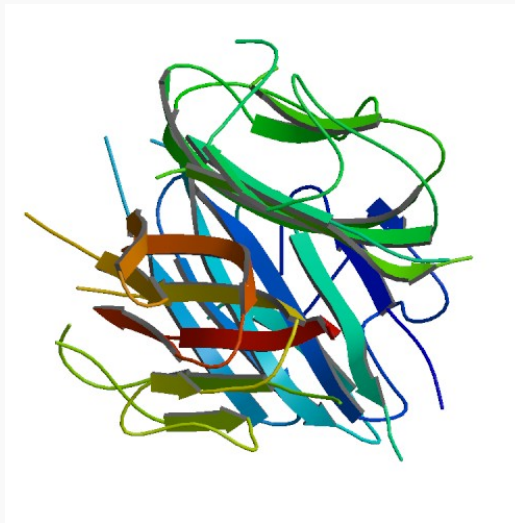
**MIM** [605441](#)

**UniProt ID** [Q15848](#)

**Chromosome Location** 3q27

**Function** cytokine activity; eukaryotic cell surface binding; hormone activity; identical protein binding; protein binding; protein homodimerization activity; receptor binding

**ADIPOQ protein**



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