

Recombinant Human ADIPOQ, His-tagged

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

SPECIFICATION

Product Overview	Total 444 AA. MW: 4903 kDa (calculated). N-Terminal His-tag, 8 extra AA (highlighted).
Species	Human
Source	E.coli
Description	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.
Form	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer, 20mM NaCl, pH 7.5.
Purity	>95%
Reconstitution	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.
Applications	Western blotting
Quality Control Test	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 TRVNLPLVS STYDLMSSAY LSTKDQYPYL
 KSVCEMAENG VKTITSVAMT SALPIIQKLE PQIAVANTYA CKGLDRIER
 LPILNQPSTQ IVANAKGAVT GAKDAVTTTV TGAKDSVAST ITGVMDKTKG
 AVTGSVEKTK SVVSGSINTV LGSRRMMQLVS SGVENALTKS ELLVEQYLPL
 TEEELEKEAK KVEGFDLVQK PSYYVRLGSL STKLHSRAYQ QALSRVKEAK
 QKSQQTISQL HSTVHLIEFA RKNVYSANQK IQDAQDKLYL SWVEWKRSIG
 YDDTDESHCA EHIESRTLAI ARNLTQQLQT TCHTLLSNIQ GVPQNIQDQA
 KHMGMAGDI 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

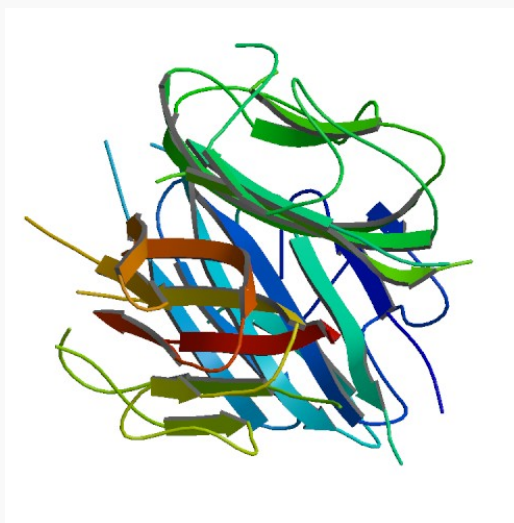
MIM 605441

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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