

Recombinant Human ADIPOQ, His-tagged

Cat. No. ADIPOQ-209H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 171AA. N-terminal His-tag and the protease cleavage site, 31 extra AA (highlighted). The AA sequence is homologous to the amino acid sequence (105-244) of the Human full-length Adiponectin.
Species	Human
Source	E.coli
ProteinLength	105-244 a.a.
Description	ADIPOQ (also referred to as GBP-28, apM1, AdipoQ and Acrp30) is a protein which in humans is encoded by the ADIPOQ gene.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4
Research topic	Energy metabolism and body weight regulation.
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	Binding assay; ELISA; Ex vivo and in vivo activity analysis; In vitro; Western blotting

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; GFC to determine purity of the protein; LAL to determine quantity of endotoxin
Sequences of amino acids	MSWWHHHHHH NWNIPPTTQDT TQDLWFEGAM GGEGAYVYRS AFSVGLETYV TIPNMPPIRFT KIFYNQQNHY DGSTGKFHCN IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN VDQASGSVLL HLEVGDQVWL QVYGEGERNG LYADNDNDST FTGFLLYHDT N
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 two weeks at 4°C.

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; 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 30 kDa protein; adipose most abundant gene transcript 1 protein
Gene ID	9370
mRNA Refseq	NM_004797

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Protein Refseq	NP_004788
MIM	605441
UniProt ID	Q15848
Chromosome Location	3q27
Pathway	Adipocytokine signaling pathway; Adipogenesis; Diabetes pathways; PPAR signaling pathway; Transcriptional Regulation of White Adipocyte Differentiation; Type II diabetes mellitus
Function	cytokine activity; cytokine activity; hormone activity; identical protein binding; protein binding; protein homodimerization activity; receptor binding
PBB Protein	