

Active Recombinant Human ADIPOQ Protein

Cat. No. ADIPOQ-06H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human gAcrp30/Adipolean (rhgAcrp30) produced in E. coli is a single non-glycosylated polypeptide chain containing 144 amino acids. A fully biologically active molecule, rhgAcrp30 has a molecular mass of 16.6 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	144 amino acids
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. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 10 µg/mL, measured by a cell growth inhibition assay using M1 cells, corresponding to a specific activity of > 100 units/mg.
Molecular Mass	16.6 kDa, observed by reducing SDS-PAGE.
AA Sequence	KGEPGEGAYVYRSAFSVGLETYVTIPNMPIRFTKIFYNQNNHYDGSTGKFHCNIPGL

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	YYFAYHITVYMKDVKVSLFKKDKAMLFTYDQYQENNVDQASGSVLLHLEVGDQVWL QVYGEGERNGLYADNDNDSTFTGFLLYHDTN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Usage	This material is offered for research, laboratory or further evaluation purposes. For research use only.
Storage	Lyophilized recombinant human gAcrp30/Adipolean (rhgAcrp30) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhgAcrp30 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

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; Ad; APN; Acdc; Adid; apM1; 30kDa; GBP28; adipo; Acrp30; adiponectin; 30 kDa adipocyte complement-related protein; adipocyte complement related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein; adipocyte-specific protein AdipoQ; adiponectin d

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Gene ID	9370
mRNA Refseq	NM_004797
Protein Refseq	NP_004788
MIM	605441
UniProt ID	Q15848

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