

Datasheet for ABIN6699892

**ADIPOQ Protein****2** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	ADIPOQ
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	Human globular ACRP-30 Recombinant Protein
Purification:	globular AC-30 purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically $\leq 1$ EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to inhibit the proliferation of mouse M1 cells and is typically 1.0 - 2.5 µg/mL.

## Target Details

Target:	ADIPOQ
Alternative Name:	ADIPOQ ( <a href="#">ADIPOQ Products</a> )
Background:	Synonyms: Adiponectin, Adipose most abundant gene transcript 1 protein (apm-1), Adipocyte complement-related 30 kDa protein (ACRP30), adipolean, Gelatin-binding protein

## Target Details

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Background: Globular ACRP-30, gACRP-30, is a naturally occurring cleavage product of adiponectin, a molecule made exclusively by adipocytes. gACRP-30 is detected at relatively high concentrations in the serum and is thought to play an important role in hyperglycemia and insulin resistance. gACRP-30 signals through receptors, AdipoR1 and AdipoR2. Recombinant human gACRP-30 is a non-glycosylated protein, containing 145 amino acids, with a molecular weight of 16.7 kDa.

UniProt: [Q15848](#)

## Application Details

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Application Notes: Other: User Optimized  
Application\_Note: Human globular ACRP-30 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Human globular ACRP-30 in immunological assays.

Comment: Suggested\_Applications: Cellular Assay  
Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)  
Reconstitution\_Volume: 100 µL

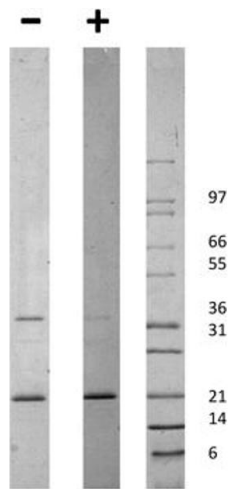
Buffer: Lyophilized in 10 mM sodium phosphate, 0.75 mM DTT, pH 8.0.

Preservative: Without preservative

Storage: 4 °C, -20 °C

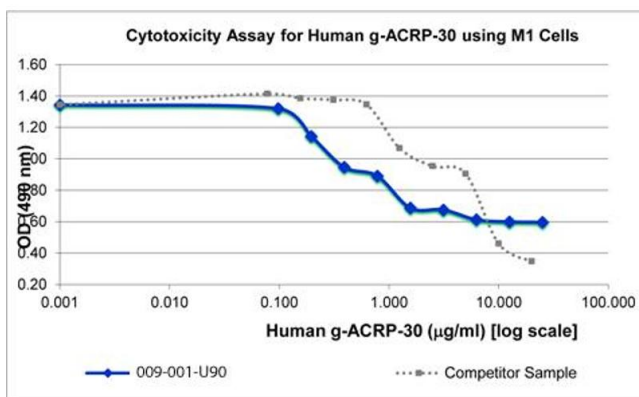
Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months



### SDS-PAGE

**Image 1.** SDS-PAGE of Human globular ACRP-30 Recombinant Protein. Lane 1: 1  $\mu\text{g}$  Human gACRP-30 in non-reducing conditions. Lane 2: 1  $\mu\text{g}$  Human gACRP-30 in reducing conditions (+). Lane 3: Molecular weight marker. Human gACRP-30 has a predicted MW of 16.7 kDa.



### SDS-PAGE

**Image 2.** SDS-PAGE of Human globular ACRP-30 Recombinant Protein Bioactivity of Human globular ACRP-30 Recombinant Protein. Serial dilutions of Human gACRP-30, starting at 25  $\mu\text{g/ml}$ , were added to M1 cells. After 66 hours, cell viability was measured and the linear portion of the curve was used to calculate the ED<sub>50</sub>. The ED<sub>50</sub> of Human gACRP-30 is 0.36-0.54  $\mu\text{g/ml}$ . This value is comparable to the typical expected range of 1-2.5  $\mu\text{g/ml}$ .