

# Human Alpha-2-glycoprotein / AZGP1 Protein (His Tag)

Catalog Number: 13242-H08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

ZA2G; ZAG

### Protein Construction:

A DNA sequence encoding the human AZGP1 (P25311) (Met1-Ser298) with a C-terminal polyhistidine tag was expressed.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gln 21

### Molecular Mass:

The recombinant human AZGP1 comprises 289 amino acids and has a predicted molecular mass of 33.6 kDa. The apparent molecular mass of the protein is approximately 41 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

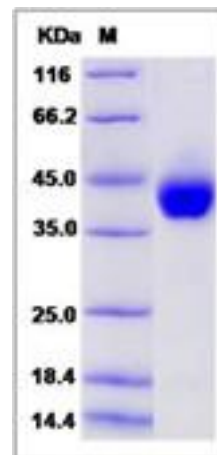
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Alpha-2-glycoprotein, also known as AZGP1, belongs to the MHC class I family. It can be detected in body fluids such as serum, sweat, and seminal and breast cyst fluids. It has been shown that alpha-2-glycoprotein can stimulate lipolysis by adipocytes in vivo and in vitro. Thus it is believed that alpha-2-glycoprotein plays an important role in the regulation of body weight, and age-dependent changes in genetically influenced obesity, and it also regulates melanin production by normal and malignant melanocytes. Alpha-2-glycoprotein is produced by both white and brown fat adipocytes and may act in a local autocrine fashion in the reduction of adiposity in cachexia.

## References

1. Tada T, *et al.* (1991) Immunohistochemical localization of Zn-alpha 2-glycoprotein in normal human tissues. *J Histochem Cytochem.* 39(9):1221-6.
2. Vanni H, *et al.* (2009) Cigarette Smoking Induces Overexpression of a Fat-Depleting Gene AZGP1 in the Human. *Chest.* 135(5):1197-208.
3. Ueyama H, *et al.* (1991) Cloning and nucleotide sequence of a human Zn-alpha 2-glycoprotein cDNA and chromosomal assignment of its gene. *Biochem Biophys Res Commun.* 177(2):696-703.

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