

P90816Hu01
Alpha-1-Acid Glycoprotein (a1AGP)
Organism: Homo sapiens (Human)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Alpha-1-Acid Glycoprotein

Gene Names: a1AGP

Size: 100µg

Source: Recombinant

Expression Host: *E. coli*

Function: Functions as transport protein in the blood stream. Binds various ligands in the interior of its beta-barrel domain. Also binds synthetic drugs and influences their distribution and availability in the body. Appears to function in modulating the activity of the immune system during the acute-phase reaction.

Subcellular Location: Secreted

Tissue Specificity: Expressed by the liver and secreted in plasma.

[PROPERTIES]

Residues: Gln19~Ser201 (Accession # P02763), with a N-terminal His-tag.

Grade & Purity: >97%, 23.1 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg (determined by the LAL method).



Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 23.1 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage.

Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSEF-QI PLCANLVPVP ITNATLDQIT GKWFYIASAF RNEEYNKSVQ EIQATFFYFT
PNKTEDTIFL REYQTRQDQC IYNTTYLNVQ RENGTSRYV GGQEHFAHLL ILRDTKTYML AFDVNDEKNW
GLSVYADKPE TTKEQLGEFY EALDCLRIPK SDVVYTDWKK DKCEPLEKQH EKERKQEEGE S