

**Product Specification Sheet**

**Human Alpha 1 acid glycoprotein (A1AG) Protein**

**Cat. #** A1AG19-N

Human Alpha 1 acid glycoprotein (A1AG) Protein, pure

**SIZE:** 1 mg

A1AG serum protein, also called orosomucoid, is a monomer about 210 amino acid residues long; the amino acid sequence has been determined through 192 amino acids. A1AG is found in human plasma in concentrations of 55-140 mg per 100 ml. It is a classical standard glycoprotein (40 Kda, ~40% carbohydrates) for studies on the structure of the oligosaccharide units. Its biological significance is unknown, although it can bind progesterone 15 times as strongly as albumin. Sialic-acid-deficient alpha-1-AG has an affinity for vitamin B-12. Clinically, alpha 1 acid glycoprotein is an acute-phase reactant that together with haptoglobin is an indicator of acute inflammation. The alpha 1 acid glycoprotein:haptoglobin ratio is useful in studies of bone marrow disorders, hemolytic processes and metastases.

It is a positive acute phase reactant, the levels of which increase significantly in cats in response to inflammation, tissue injury and disease. A1AGP is purified using a combination of acid extraction, precipitation, gel filtration and affinity chromatography steps.

OROSOMUCOID 1; ORM1

Alternative titles; symbols

ORM

GLYCOPROTEIN, ALPHA-1-ACID, OF SERUM

ALPHA-1-ACID GLYCOPROTEIN

ALPHA-1-AGP; AGP1

Gene map locus 9q34.1-q34.3

**Source of Antigen and Antibodies**

**A1AG** protein (**cat# A1AG19-N-25**) was purified (>99%, ~40 Kda) from human plasma. All human derived material has been tested negative for HIV, HCV, and HbSAg. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

Purified A1AG protein is formulated in PBS, pH 7.4, (see lot specific protein concn on the vial). Lyophilized protein should be dissolved in PBS at a desired protein concentration. Store liquid or lyophilized protein at –20oC in suitable size aliquots. Do not freeze and thaw.

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4oC.

**Long-term:** at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at –20oC or below.

**Shipping:** 4oC for solutions and room temp for lyophilized items.

**General References:** Dente L (1985) Nucl. Acid. Res. 13, 3941; Dente L (1987) EMBO J. 6, 2289; Board PG (1986) Gene 44, 127-131; Tokita K (1963) Nature, 200,266

\*This product is for in vitro research use only.

**Some New Antibodies from ADI...**

Catalog#	ProdDescription
A1AG11-A	Anti-Human Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, unlabeled
A1AG11-BT	Anti-Human Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, Biotin conjugate
A1AG11-C	Human Alpha 1-Acid Glycoprotein (A1-AGP) protein control for WB
A1AG11-HRP	Anti-Human Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, HRP conjugate
A1AG19-N	Alpha 1 Acid Glycoprotein (A1-AGP), Human Plasma
A1AG16-N-25	Alpha-1-Acid Glycoprotein Protein, Cat, purified
A1AG17-A	Anti-Dog Alpha-1-acid Glycoprotein IgG, aff pure
A1AG17-C	Alpha-1-Acid Glycoprotein Protein, Dog, control for western
A1AG17-N-25	Alpha-1-Acid Glycoprotein Protein, Dog, purified
A1AG18-A	Anti-Mouse a-1-Acid Glycoprotein IgG, aff pure
A1AG18-C	Alpha-1-Acid Glycoprotein Protein, Mouse, control for western
A1AG18-N-25	Alpha-1-Acid Glycoprotein Protein, Mouse, Purified
A1AG19-A	Anti-Rat a-1-Acid Glycoprotein IgG, aff pure
A1AG19-C	Alpha-1-Acid Glycoprotein Protein, Rat, purified control for western
A1AG19-N-25	Alpha-1-Acid Glycoprotein Protein, Rat, purified

**ELISA kits**

**610-410-MLC Rat a-1-Acid Glycoprotein ELISA kit**

A1AG19-N

101124A

**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)