

**Product Specification Sheet**

**Alpha-1-Acid Glycoprotein Dog**

□ Cat. # A1AG17-N-25

Alpha-1-Acid Glycoprotein Protein, Dog, purified

SIZE: 25 ug

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.

A1AGP is one of the most acidic proteins found in serum. 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# A1AG17-N-25**) was purified (>95%, ~44 Kda) from dog plasma. Purified A1AG protein is formulated in NaCl, Na<sub>3</sub>PO<sub>4</sub> [pH 7.4] and 0.05% NaN<sub>3</sub> (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.

**Related items:**

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

A1AG12-A Anti-Human Alpha 1 acid glycoprotein (A1AG) IgG/Y, unlabeled

A1AG12-M Monoclonal Anti-Human Alpha 1-Acid Glycoprotein (A1-AGP) protein, ascites

A1AG15-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

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

A1AG20-N Alpha 1 Acid Glycoprotein (A1-AGP), bovine

A1AG17-N-25

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