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, Na3PO4 [pH 7.4] and 0.05% NaN3 (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 –20°C in suitable size aliquots. Do not freeze and thaw.

Storage
Short-term: unopened, undiluted vials for less than a week at 4°C.

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

Stability: 6-12 months at –20°C or below.

Shipping: 4°C for solutions and room temp for lyophilized items.


*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-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

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