

Product Specification Sheet

Bovine Alpha 1 acid glycoprotein (A1AG/A1-AGP) Protein

□ **Cat. #** A1AG20-N Alpha 1 Acid Glycoprotein (A1-AGP), bovine **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 Cat 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# A1AG20-N**) was purified (>99%, ~50 Kda) from bovine plasma. 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 or other buffers 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-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, unlabeled
A1AG11-BT	Anti-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, Biotin conjugate
A1AG11-C	Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein control for WB
A1AG11-HRP	Anti-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, HRP conjugate
A1AG19-N	Alpha 1 Acid Glycoprotein (A1-AGP), Cat 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
A1AG20-N	131107A

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