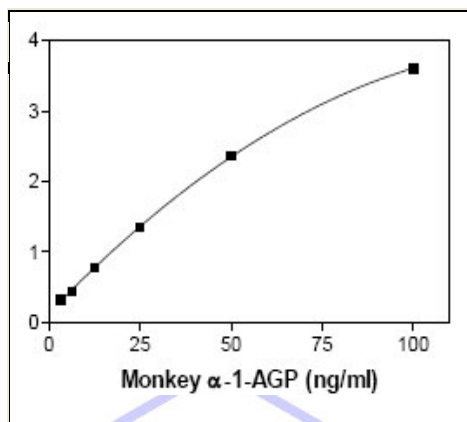


Monkey α -1 Acid Glycoprotein (AGP) ELISA KIT Cat. No. 6490-10

Monkey AGP ELISA | Quantitative, Sandwich ELISA | Stds = 3.13 -100 ng/ml; Sample = 100 μ l; 110 min assay | Sensitivity ~3.1 ng/ml



ELISA Kit Features

- **Anti-Monkey AGP Pre-coated, stabilized, ready-to-use 96-well strip plate**, suitable for multiple runs over 6-12 months.
- **Convenient lyophilized reference standard**, use to make working stds: 100, 50, 25, 12.5, 6.25, 3.12, and 0 ng/ml.
- **Sensitivity ~3.1 ng/ml**; 100 μ l samples
- **110 minute**, 3 incubation steps at room temp
- **Contains all necessary reagents.**

This kit is for measuring Monkey AGP in serum.

For in vitro research use only.

Assay Procedure:

Allow all reagents to reach room temperature. Arrange and label required number of strips.

1. **Pipet 100 μ l each of standards and samples** (diluted as required) into appropriate wells. Mix gently and incubate at **room temperature for 45 min** on an orbital shaker.
2. **Aspirate and wash** the plate 5 times. Add **100 μ l of anti-AGP-HRP conjugate** into each well. Mix gently and incubate at **room temperature for 45 min** on an orbital shaker.
3. **Aspirate and wash** the plate 5 times. Add **100 μ l of TMB Substrate** solution to all wells, mix gently, and incubate at room temperature for **20 min** on an orbital shaker.
4. **Pipet 100 μ l of stop solution** into each well and mix gently (blue color turns yellow). **Measure OD at A450 nm**. Calculate concentration of AGP in each sample using the Standard curve.

Kit Contents

Anti-Monkey AGP coated strip plate (8 wells x 12 strips)
Monkey AGP Reference Standard, Lyophilized
TMB Substrate, 11 ml
Stop Solution, 11 ml

Diluent (10X), 25 ml
Anti-Monkey AGP-HRP Conjugate, 11 ml
Wash Buffer (20X), 50 ml
Instruction Manual, 1 each

General Information

Alpha-1-acid glycoprotein (AGP) is a simplified name for orosomucoid (ORM). ORM is an acute phase plasma alpha-globulin glycoprotein and is modulated by two polymorphic genes. It is synthesized primarily in hepatocytes and has a normal plasma concentration between 0.6-1.2 mg/mL (1-3% plasma protein). Plasma levels are affected by pregnancy, certain drugs, and certain diseases, particularly HIV.

AGP is a 41-43-kDa glycoprotein with a pI of 2.8-3.8. The peptide moiety is a single chain of 183 amino acids (human) or 187 amino acids (rat) with two and one disulfide bridges in humans and rats, respectively. AGP is one of the major acute phase proteins in humans, rats, mice and other species. As most acute phase proteins, its serum concentration increases in response to systemic tissue injury, inflammation or infection, and these changes in serum protein concentrations have been correlated with increases in hepatic synthesis. Expression of the AGP gene is controlled by a combination of the major regulatory mediators. It is now well established that the acute phase response may take place in extra-hepatic cell types, and may be regulated by inflammatory mediators as observed in hepatocytes. The biological function of AGP remains unknown; however, a number of activities of possible physiological significance, such as various immunomodulating effects, have been described. AGP also has the ability to bind and to carry numerous basic and neutral lipophilic drugs from endogenous (steroid hormones) and exogenous origin; one to seven binding sites have been described. AGP can also bind acidic drugs such as Phenobarbital.

ADI's Monkey AGP ELISA provides a rapid, specific and sensitive assay for measuring AGP in serum or other biological fluids.

Related ELISA kits

6490	Rat α -1 Acid Glycoprotein ELISA KIT	6250-10	Dog Serum Haptoglobin ELISA kit
6250-20	Horse Serum Haptoglobin ELISA kit	6250-40	Pig Serum Haptoglobin ELISA kit
6250-30	Rat Serum Haptoglobin ELISA kit	6250-50	Cat Serum Haptoglobin ELISA kit
600-600-HMY	Dog Myoglobin ELISA Kit	600-610-HMY	Human Myoglobin ELISA Kit
600-620-MMY rev 100331JA	Monkey Myoglobin ELISA Kit	600-630-MMY	Mouse Myoglobin ELISA Kit