

## Alpha Fetoprotein, AFP Protein (Active)

**Catalog#** BNP1003

**Lot #** Check on the product label

**Size** 100 µg

### Description

Purified human AFP protein.

**Synonyms** Alpha fetoprotein, alpha fetoglobulin, AFP, HPAFP

**Source** Human fetal cord serum

**Formulation** Liquid

**Concentration** 0.84 mg/ml

### Application

ELISA

Other applications have not been tested.

### Storage buffer

Each vial contains 0.01 M PBS, 0.15 M NaCl (pH 7.4) with 0.05% NaN<sub>3</sub>.

### Storage & Expiration

Ship at 4°C. Upon receipt, aliquot and store at -20°C or -80°C for long term.

Avoid repeated freeze and thaw cycles.

### Background

Alpha-fetoprotein (AFP) is a major plasma protein in the fetus, where it is produced by the yolk sac and liver. It is encoded by the AFP gene. The AFP gene is located on chromosome 4q25. AFP is a glycoprotein of 591 amino acids and a carbohydrate moiety. In rodent fetuses AFP binds estradiol to prevent the transport of this hormone across the placenta. The main function of this is to prevent the masculinization of female fetuses.

### Reference

1. Tomasi TB (1977). "Structure and function of alpha-fetoprotein". Annual review of medicine 28: 453–65.
2. Harper ME, Dugaiczky A (July 1983). "Linkage of the evolutionarily-related serum albumin and alpha-fetoprotein genes within q11-22 of human chromosome 4". American Journal of Human Genetics 35 (4): 565–72.
3. Pucci P, Siciliano R, Malorni A, Marino G, Tecce MF, Ceccarini C, Terrana B (May 1991). "Human alpha-fetoprotein primary structure: a mass spectrometric study". *Biochemistry* 30 (20): 5061–6.
4. Seregini E, Botti C, Bombardieri E (1995). "Biochemical characteristics and clinical applications of alpha-fetoprotein isoforms". *Anticancer Res.* 15 (4): 1491–9.
5. Carter CS (2002). "Neuroendocrinology of sexual behavior in the female". In Becker JB. Behavioral Endocrinology. Cambridge, Mass: MIT Press. pp. 88-89.

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