

For Research Use Only

# Recombinant Mouse AFP protein (His Tag)(HPLC verified)



Catalog Number: Eg0670

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC

**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Mouse AFP protein Lys19-Val605 (Accession# P02772) with a His tag at the C-terminus.

**GeneID:**  
11576

**Accession:**  
P02772

**Predicted Molecular Mass:**  
66.4 kDa

**SDS-PAGE:**  
60-75 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

AFP (alpha-fetoprotein) is a major plasma protein found in the fetus while plasma AFP level is decreased rapidly after birth. AFP is a vital marker of the hepatocyte lineage. High AFP concentrations is related with tumor cell growth. Detection of AFP in plasma is important in diagnosis of hepatocellular carcinoma (HCC), stomach cancer and germ cell cancers. Altered levels of both fetal and maternal AFP are associated with hypothyroidism, autoimmune disorders, and heart defects. Measurement of AFP in maternal blood or amniotic fluid of pregnant women is used in screening developmental abnormalities such as aneuploidy. Serum AFP level is elevated in people with developmental birth defects and neurologic disorders.

## References

1. Rosen T, et al. (2005). Semin Perinatol. 29(6):367-75.
2. Schieving JH, et al. (2014). Eur J Paediatr Neurol. 18(3):243-8.
3. Wang X, et al. (2018). Can J Gastroenterol Hepatol. 9;2018:1232785.
4. Başbuğ D, et al. (2017). Ginekolo Pol. 88(6):325-330.

## Synonyms

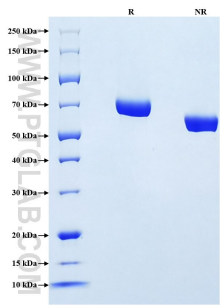
alpha fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin, Alpha-fetoprotein

For technical support and original validation data for this product please contact

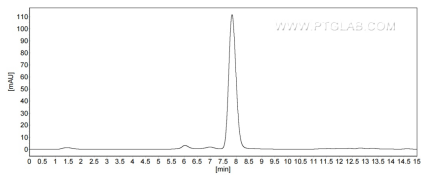
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



Purity of Recombinant Mouse AFP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse AFP was greater than 90% as determined by SEC-HPLC.