

Recombinant Human AFP protein (His Tag)

Catalog Number: Eg0539

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human AFP Arg19-Val609 (Accession# P02771) with a His tag at the C-terminus.

GeneID:

174

Accession:

P02771

Predicted Molecular Mass:

70.3 kDa

SDS-PAGE:

65-80 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.

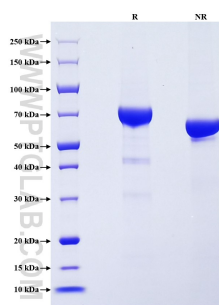
References

1. Todd Rosen, 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. Can J Gastroenterol Hepatol. 2018 May 9;2018:1232785.
4. Başbuğ D, et al. (2017) Ginekol Pol. 88(6):325-330.

Synonyms

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

Selected Validation Data



Purity of Recombinant Human Alpha-fetoprotein 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.

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

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