

Alpha-Fetoprotein Protein, Human (HEK293, His)

Cat. No.:	HY-P7463
Synonyms:	rHuAlpha-Fetoprotein, His; AFP; Alpha-Fetoprotein
Species:	Human
Source:	HEK293
Accession:	P02771 (T20-V609)
Gene ID:	174
Molecular Weight:	approximately 60-70 kDa due to the glycosylation.

PROPERTIES

AA Sequence

T L H R N E Y G I A	S I L D S Y Q C T A	E I S L A D L A T I	F F A Q F V Q E A T
Y K E V S K M V K D	A L T A I E K P T G	D E Q S S G C L E N	Q L P A F L E E L C
H E K E I L E K Y G	H S D C C S Q S E E	G R H N C F L A H K	K P T P A S I P L F
Q V P E P V T S C E	A Y E E D R E T F M	N K F I Y E I A R R	H P F L Y A P T I L
L W A A R Y D K I I	P S C C K A E N A V	E C F Q T K A A T V	T K E L R E S S L L
N Q H A C A V M K N	F G T R T F Q A I T	V T K L S Q K F T K	V N F T E I Q K L V
L D V A H V H E H C	C R G D V L D C L Q	D G E K I M S Y I C	S Q Q D T L S N K I
T E C C K L T T L E	R G Q C I I H A E N	D E K P E G L S P N	L N R F L G D R D F
N Q F S S G E K N I	F L A S F V H E Y S	R R H P Q L A V S V	I L R V A K G Y Q E
L L E K C F Q T E N	P L E C Q D K G E E	E L Q K Y I Q E S Q	A L A K R S C G L F
Q K L G E Y Y L Q N	A F L V A Y T K K A	P Q L T S S E L M A	I T R K M A A T A A
T C C Q L S E D K L	L A C G E G A A D I	I I G H L C I R H E	M T P V N P G V G Q
C C T S S Y A N R R	P C F S S L V V D E	T Y V P P A F S D D	K F I F H K D L C Q
A Q G V A L Q T M K	Q E F L I N L V K Q	K P Q I T E E Q L E	A V I A D F S G L L
E K C C Q G Q E Q E	V C F A E E G Q K L	I S K T R A A L G V	

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Alpha-Fetoprotein is one of several tumor markers, such as hepatocellular carcinomas, cirrhosis, and chronic acute hepatitis. Tumor markers mean that molecules in the blood are higher when one has certain cancers^[1]. Alpha-Fetoprotein can be detected in liver cancer, nonseminomatous germ cell tumors, cirrhosis or chronic active hepatitis. Iso have higher blood levels of AFP^[1].

REFERENCES

- [1]. Jing-Yue Yang, et al. Co-transfection of Dendritic Cells With AFP and IL-2 Genes Enhances the Induction of Tumor Antigen-Specific Antitumor Immunity. *Exp Ther Med*. 2012 Oct;4(4):655-660.
- [2]. Mingyue Zhu, et al. Hepatitis B Virus X Protein Induces Expression of Alpha-Fetoprotein and Activates PI3K/mTOR Signaling Pathway in Liver Cells. *Oncotarget*. 2015 May 20;6(14):12196-208.
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Caution: Product has not been fully validated for medical applications. For research use only.

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