

Alpha-Fetoprotein Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7464
Synonyms:	rMuAlpha-Fetoprotein, His; AFP; Alpha-Fetoprotein
Species:	Mouse
Source:	HEK293
Accession:	P02772 (K19-V605)
Gene ID:	11576
Molecular Weight:	65-75 kDa

PROPERTIES

AA Sequence

K A L H E N E F G I	A S T L D S S Q C V	T E K N V L S I A T	I T F T Q F V P E A
T E E E V N K M T S	D V L A A M K K N S	G D G C L E S Q L S	V F L D E I C H E T
E L S N K Y G L S G	C C S Q S G V E R H	Q C L L A R K K T A	P A S V P P F Q F P
E P A E S C K A H E	E N R A V F M N R F	I Y E V S R R N P F	M Y A P A I L S L A
A Q Y D K V V L A C	C K A D N K E E C F	Q T K R A S I A K E	L R E G S M L N E H
V C S V I R K F G S	R N L Q A T T I I K	L S Q K L T E A N F	T E I Q K L A L D V
A H I H E E C C Q G	N S L E C L Q D G E	K V M T Y I C S Q Q	N I L S S K I A E C
C K L P M I Q L G F	C I I H A E N G V K	P E G L S L N P S Q	F L G D R N F A Q F
S S E E K I M F M A	S F L H E Y S R T H	P N L P V S V I L R	I A K T Y Q E I L E
K C S Q S G N L P G	C Q D N L E E E L Q	K H I E E S Q A L S	K Q S C A L Y Q T L
G D Y K L Q N L F L	I G Y T R K A P Q L	T S A E L I D L T G	K M V S I A S T C C
Q L S E E K W S G C	G E G M A D I F I G	H L C I R N E A S P	V N S G I S H C C N
S S Y S N R R L C I	T S F L R D E T Y A	P P P F S E D K F I	F H K D L C Q A Q G
K A L Q T M K Q E L	L I N L V K Q K P E	L T E E Q L A A V T	A D F S G L L E K C
C K A Q D Q E V C F	T E E G P K L I S K	T R D 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 (AFP) is a serum glycoprotein through receptor-mediated endocytosis to embryotic cells. AFP is a marker to pathological conditions including neoplastic and non-neoplastic diseases, antioxidant effects, growth regulator in different cells and in cancer, immune response modulator, and carrier for fatty acids and oestrogens. Toxins delivered by AFP can damage myeloid-derived suppressor cells and consequently unleash innate and adaptive immunity to destroy cancer cells^{[1][2]}.

REFERENCES

[1]. Rizzo A, et al. Alpha-fetoprotein in animal reproduction. Res Vet Sci. 2019 Apr;123:281-285.

[2]. Pak VN. The use of alpha-fetoprotein for the treatment of autoimmune diseases and cancer. Ther Deliv. 2018 Jan;9(1):37-46.

Caution: Product has not been fully validated for medical applications. For research use only.

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