

Recombinant Human AFP Protein, His Tagged

Cat. No. AFP-11220H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Alpha-fetoprotein, His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 19-Val 609 (Accession # P02771-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Arg 19
Species	Human
Source	HEK293
ProteinLength	19-609 aa
Description	Alpha-fetoprotein(AFP) is the first tumor marker with clinical application value found by human. AFP has an ability to induce the immune escapes through inhibiting the function of dendritic cells, natural killer cells, and T lymphocytes. By in vitro modification, the immunogenicity and immune response of AFP could be enhanced. AFP-modified immune cell vaccine or peptide vaccine has displayed the specific antitumor immunity against AFP-positive tumor cells and laid a better foundation for the immunotherapy of liver cancer. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 68.4 kDa. The protein migrates as 70-75 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

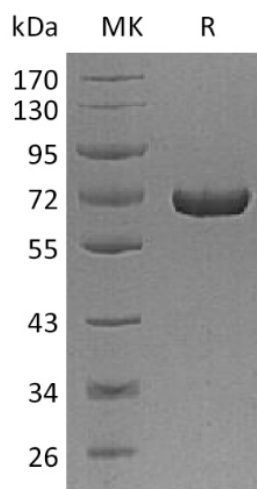
Gene Name	AFP alpha-fetoprotein [Homo sapiens (human)]
Official Symbol	AFP
Synonyms	AFP; alpha-fetoprotein; HPAFP; FETA; alpha-fetoglobulin; alpha-1-fetoprotein;
Gene ID	174
mRNA Refseq	NM_001134
Protein Refseq	NP_001125
MIM	104150
UniProt ID	P02771

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SDS-PAGE



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