

Recombinant Human AFP Protein, His-tagged

Cat. No. AFP-52H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AFP (19-609aa) Protein with His tag at C-terminus was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	19-609
Description	This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatocarcinoma and with teratoma, and has prognostic value for managing advanced gastric cancer. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. 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	Liquid
Molecular Mass	67.5 kDa

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AA Sequence

RTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKP
 TGDEQSSGCLNQLPAPLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTP
 ASIPLFQVPEPVTSCAYEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCC
 KAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGTRTFQAITVTKLSQKFTKV
 NFTEIQKLVLDVAHVHEHCCRGDVLDCQDGEKIMSYICSQQDTLSNKITECCKLTTL
 ERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQL
 AVSVILRVAKGYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKL
 GEYYLQNAFLVAYTKKAPQLTSELMAITRKMAATAATCCQLSEDKLLACGEGAADII
 IGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVDETYVPPAFSDDKFIFHKDL
 CQAQGVALQTMKQEFNLVVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFAE
 EGQKLISKTRAALGV

Endotoxin

<1.0 EU/μg of the protein by the LAL method.

Purity

>95% by SDS-PAGE

Applications

SDS-PAGE

Storage

Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration

0.5 mg/mL (determined by absorbance at 280nm)

Storage Buffer

Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION
Gene Name

AFP alpha fetoprotein [Homo sapiens (human)]

Official Symbol

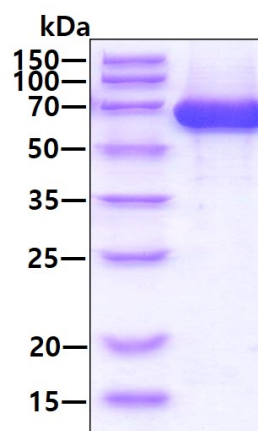
AFP

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Synonyms	AFP; alpha fetoprotein; AFPD; FETA; HPAFP; alpha-fetoprotein; alpha-1-fetoprotein; alpha-fetoglobulin
Gene ID	174
mRNA Refseq	NM_001134
Protein Refseq	NP_001125
MIM	104150
UniProt ID	P02771

SDS-PAGE


3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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