

## Recombinant Human AFP Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AFP (19-609aa) Protein with His tag at C-terminus was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Description</b>	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.
<b>Source</b>	Insect cell
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid
<b>Molecular Mass</b>	67.5 kDa
<b>Protein length</b>	19-609

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<b>AA Sequence</b>	RTLHRNEYGIASILD SYQCTAEISL ADLATIFFAQFVQEATYKEVSKMVK DALTAIEKPTGDEQSSGCLENQLPA FLEELCHEKEILEKYGHSDCCSQSE EGRHNCFLAHKKPTPASIPLFQVPE PVTSCAYEEDRETFMNKFIYEIAR RHPFLYAPTILLWAARYDKIIPSCC KAENAVECFQTKAATVTKELRESSL LNQHACAVMKNFGTRTFQAITVTKL SQKFTKVNFTEIQKLVLDVAHVHEH CCRGDVLDCLQDGEKIMSYICSQD TLSNKITECCKLTTLERGQCIHAE NDEKPEGLSPNLNRFLGDRDFNQFS SGEKNIFLASFVHEYSRRHPQLAVS VILRVAKGYQELLEKCFQTENPLEC QDKGEELQKYIQESQALAKRSCGL FQKLGEYYLQNAFLVAYTKKAPQLT SSELMAITRKMAATAATCCQLSEDK LLACGEGAADIIIGHLCIRHEMTPV NPGVGQCCCTSSYANRRPCFSSLVVD ETYVPPAFSDDKFIFHKDLCQAQGV ALQTMKQEFLINLVKQKPQITEEQL EAVIADFSGLLEKCCQGQEVCFA EEGQKLISKTRAALGV
<b>Endotoxin</b>	<1.0 EU/µg of the protein by the LAL method.
<b>Purity</b>	>95% by SDS-PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.
<b>Concentration</b>	0.5 mg/mL (determined by absorbance at 280nm)
<b>Storage Buffer</b>	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	AFP alpha fetoprotein [ Homo sapiens (human) ]
<b>Official Symbol</b>	AFP

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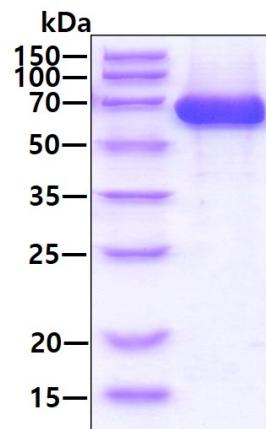
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<b>Synonyms</b>	AFP; alpha fetoprotein; AFPD; FETA; HPAFP; alpha-fetoprotein; alpha-1-fetoprotein; alpha-fetoglobulin
<b>Gene ID</b>	174
<b>mRNA Refseq</b>	NM_001134
<b>Protein Refseq</b>	NP_001125
<b>MIM</b>	104150
<b>UniProt ID</b>	P02771

## IMAGE

### SDS-PAGE :



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

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