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**Product Data Sheet**


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Product Name: AFP Protein

Cat. No.: GP22685

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Alpha-Fetoprotein; Alpha-1-Fetoprotein; Alpha-Fetoglobulin; HPAFP; AFPD; FETA; HP; Alpha-fetoprotein.

Amino Acid Sequence

RTLHRNEYGI ASILDSYQCT AEISLADLAT IFFAQFVQEA  
 TYKEVSKMVKDALTAIEKPT GDEQSSGCLE NQLPAFLEEL CHEKEILEKY  
 GHSDCCSQSE EGRHNCFLAH KKPTPASIFLQVPEPVTSC EAYEEDRETF  
 MNKFIYEIAR RHPFLYPTI LLWAARYDKI IPSCCKAENAVECFQTKAAT  
 VTKELRESSL LNQHACAVMK NFGTRTFQAI TVTKLSQKFTKVNFTIEIQL  
 VLDVAHVHEH CCRGDVLDCL QDGEKIMSYI CSQQDTLSNK ITECCKLTTL  
 ERGQCIIHAENDEKPEGLSP NLNRFLGDRD FNQFSSGEKN IFLASVHEHY  
 SRRHPQLAVS VILRVAKGYQELLEKCFQTE NPLECQDKGE EELQKYIQES  
 QALAKRSCGL FQKLGEYYLQNAFLVAYTKK APQLTSSSELM AIRKMAATA  
 ATCCQLSEDK LLACGEGAAD IIIGHLCIRH EMTVPVNPVGVQCCTSSYANR  
 RPCFSSLVVD ETYVPPAFSD DKFIFHKDLC QAQGVALQTM  
 KQEFLINLVKQKPQITEEQLE AVIADFSGLLEKCCQGQEQ EVCFAEEGQK  
 LISKTRAALG VHHHHHH.

Formulation AFP protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

AFP is normally synthesized in the liver, intestinal tract, and yolk sac of the fetus. Antibody to AFP has been shown to be useful in detecting hepatocellular carcinomas (HCC) and germ cell neoplasms, especially yolk sac tumors.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

AFP produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 597 amino acids (19-609a.a.) and having a molecular mass of 67.3kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). AFP is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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