

Product information

AFP, 19-609aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3169

Full name: Alpha-fetoprotein

NCBI Accession No.: NP_001125

Synonyms: AFPD, FETA, HPAFP

Description: AFP, also known as alpha-fetoprotein, is a major plasma protein produced by the yolk sac and the liver during fetal development. It is thought to be the fetal form of serum albumin. This protein binds to copper, nickel, fatty acids and bilirubin. The main function of this is to prevent the virilization of female fetuses. As it does not bind estrogen, its function in humans is less clear. Recombinant human AFP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

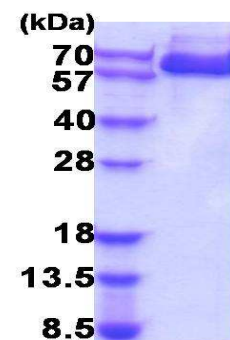
Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 67.3kDa (597aa)
57-70kDa (SDS-PAGE under reducing conditions)

Purity: > 95% by SDS – PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

RTLHRNEYGI ASILDSYQCT AEISLADLAT IFFAQFVQEA TYKEVSKMVK DALTAIEKPT GDEQSSGCLE NQLPAFLEEL CHEKEILEKY
 GHSDCCSQSE EGRHNCFLAH KKPTPAS I PL FQVPEPVTSC EAYEEDRETF MNKFIYEIAR RHPFLYAPT I LLWAARYDKI IPSCCKAENA
 VECFQTKAAT VTKELRESSL LNQHACAVMK NFGTRTFQAI TVTKLSQKFT KVNFT EIQKL VLDVAHVHEH CCRGDVLDCL QDGEKIMSYI
 CSQQDTLSNK ITECCKLTTL ERGQC I I HAE NDEKPEGLSP NLNRFLGDRD FNQFSSGEKN IFLASFVHEY SRRHPQLAVS VILRVAKGYQ
 ELLEKCFQTE NPLECQDKGE EELQKYIQES QALAKRSCGL FQKLGEYYLQ NAFLVAYTKK APQLTSSELM AITRKMAATA ATCCQLSEDK
 LLACGEGAAD I I IGHLCIRH EMTPVNPGVG QCCTSSYANR RPCFSSLVVD ETYVPPAFSD DKFIFHKDLC QAQGVALQTM KQEFLINLVK
 QKPQITEEQL EAVIADFSGL LEKCCQGQEQ EVCFAEEGQK LISKTRAALG VHHHHHH

General references:

Tomasi TB Jr., (1997) *Annu Rev Med.* 28:453-465.

Elbrecht A., *et al.* (1992) *Science.* 255:467-470.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.