

Recombinant human alpha-Fetoprotein/AFP protein

Catalog Number: ATGP3169

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-609aa

UniProt No.

P02771

NCBI Accession No.

NP_001125.1

Alternative Names

Alpha-fetoprotein, AFPD, FETA, HPAFP

PRODUCT SPECIFICATION

Molecular Weight

67.5 kDa (600aa)

Concentration

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

Formulation

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

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

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

BACKGROUND

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

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expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

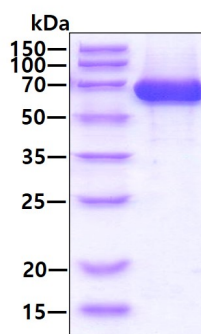
<ADP>RTLHRNE YGIASILDSY QCTAEISLAD LATIFFAQFV QEATYKEVSK MVKDALTAIE KPTGDEQSSG CLENQLPAFL
EELCHEKEIL EKYGHSDCCS QSEEGRHNCF LAHKKPTPAS IPLFQVPEPV TSCEAYEEDR ETFMNKFIYE IARRHPFLYA
PTILLWAARY DKIIPSCCKA ENAVECFQTK AATVTKELRE SSLLNQHACA VMKNFGTRTF QAITVTKLSQ KFTKVNFTI
QKLVLDAHV HEHCCRGDVL DCLQDGEKIM SYICSQQDTL SNKITECCKL TTLEGRQCII HAENDEKPEG LSPNLNRFLG
DRDFNQFSSG EKNIFLASFV HEYSRRHPQL AVSVILRVAK GYQELLEKCF QTENPLECQD KGEEELQKYI QESQALAKRS
CGLFQKLGEY YLQNAFLVAY TKKAPQLTSS ELMAITRKMA ATAATCCQLS EDKLLACGEG AADIIGHLC IRHEMTPVNP
GVGQCCTSSY ANRRPCFSSL VVDETYVPPA FSDDKFIFHK DLCQAQGVAL QTMKQEFLIN LVKQKPQITE EQLEAVIADF
SGLLEKCCQG QEQEVCFAGE GQKLISKTRA ALGV<HHHHHH>

General References

Tomasi TB Jr., (1997) Annu Rev Med. 28:453-465.
Elbrecht A., et al. (1992) Science. 255:467-470.

DATA

SDS-PAGE



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