

AFP

Native Human Alpha-Fetoprotein, High Purity

Catalog No.	CS070A CS070B	Quantity:	100 µg 1.0 mg
Alternate Names:	AFP, alpha-fetoglobulin, alpha-1-fetoprotein		
Description:	AFP is the most abundant plasma protein found in the human fetus and thought to be the fetal analog of serum albumin. AFP binds to copper, nickel, fatty acids and bilirubin and is found in monomeric, dimeric and trimeric forms. Measurement of AFP has two clinical contexts: measurement in maternal blood or amniotic fluid as a screening test for certain developmental abnormalities such as aneuploidy, and for elevated serum AFP level in people with certain tumors. It is used as a biomarker to follow the progress of the disease.		
UniProt ID:	P02771		
Gene ID:	174		
Purity:	<p>≥ 95% by SDS-PAGE</p> <p>Native PAGE shows one dark and two light bands occurring at ~68kDa. This correlates to the presence of three AFP isoforms (AFP-L1, AFP-L2, and AFP-L3) in physiological proportion. SDS-PAGE analysis may also reveal AFP dimers or trimers occurring at ~136kDa and ~204kDa, respectively. The presence of these bands may be reduced or eliminated by use of an antioxidant during electrophoresis.</p>		
Source:	Human serum		
Molecular Weight:	approximately 68 kDa		
Formulation:	Lyophilized from 50 mM ammonium bicarbonate.		
Reconstitution:	Reconstitute with neutral pH buffer of choice.		
Storage & Stability:	<p>2-8°C for short term storage. Store as supplied for up to 1 year at -20°C to -80°C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C.</p> <p>Avoid repeated freeze/thaw cycles.</p>		
Certification:	<p>Serum from donors has been tested and found to be negative for HIV-1/HIV-2, Hepatitis B Core Antigen, Hepatitis B Surface Antigen, Hepatitis C Virus and Syphilis by current FDA approved methods. However, because no test method can offer complete assurance that HIV, HBsAg, HCV, Syphilis or other infectious agents are absent, this material should be handled at the Bio-safety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.</p>		

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