

**MOUSE AFP PROTEIN, HIS TAG****Cat.#:** 12214**Product Name:** Mouse AFP Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Alpha-fetoprotein**Target:** AFP**UNIPROT ID:** P02772**Description:** Recombinant mouse AFP protein with C-terminal 6xHis tag**Background:** Predicted to enable fatty acid binding activity and zinc ion binding activity. Acts upstream of or within SMAD protein signal transduction; ovulation from ovarian follicle; and progesterone metabolic process. Located in cytoplasm and extracellular space. Is expressed in several structures, including amniotic fluid; egg cylinder; gut; liver and biliary system; and metanephros. Human ortholog(s) of this gene implicated in hepatitis C. Orthologous to human AFP (alpha fetoprotein). [provided by Alliance of Genome Resources, Apr 2022]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 66.0 kDa after removal of the signal peptide. The apparent molecular mass of mAFP-His is approximately 55–70 kDa due to glycosylation.**Molecular Characterization:** Mouse AFP(Leu21-Val605) 6×His tag**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Mouse AFP Protein, His Tag on SDS-PAGE under reducing condition.