

## 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.