

Cynomolgus AFP Protein

Cat. No. AFP-CM101

Description

Source	Recombinant Cynomolgus AFP Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg19-Val609.
Accession	A0A2K5U7U0
Molecular Weight	The protein has a predicted MW of 67.53 kDa. Due to glycosylation, the protein migrates to 68-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Alpha-fetoprotein is a shuttle protein that delivers nutrients through receptor-mediated endocytosis to embryonic cells. In adults, alpha-fetoprotein can shuttle drugs into alpha-fetoprotein receptor-positive myeloid-derived suppressor, regenerating and also cancer cells. Drugs with high-binding affinity to alpha-fetoprotein can activate or deplete targeted cells. Myeloid-derived suppressor cells activation leads to immune suppression that can be used for treating autoimmune diseases.

Assay Data

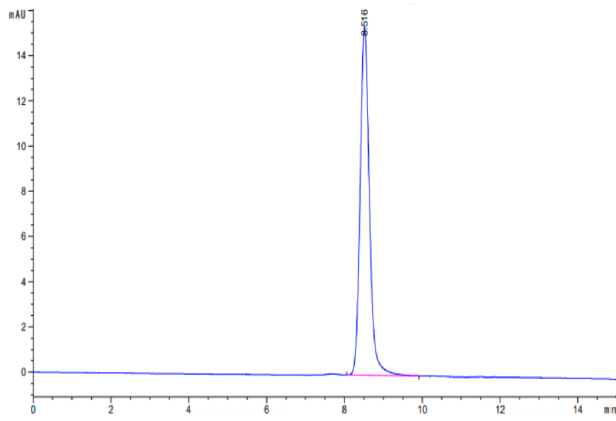
Bis-Tris PAGE



Cynomolgus AFP on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Cynomolgus AFP is greater than 95% as determined by SEC-HPLC.