

# Canine AFP Protein

Cat. No. AFP-DM101

## Description

<b>Source</b>	Recombinant Canine AFP Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg19-Val609.
<b>Accession</b>	Q8MJU5
<b>Molecular Weight</b>	The protein has a predicted MW of 67.71 kDa. Due to glycosylation, the protein migrates to 68-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. 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

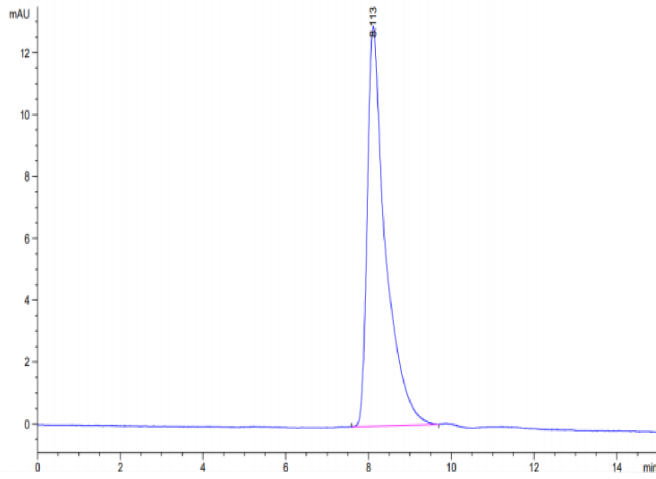
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



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