



## Synonyms

APRIL, TNFSF13, TALL-2, TRDL-1, CD256, TALL2, ZTNF2

## Source

Biotinylated Cynomolgus APRIL Protein, Avitag, His Tag (APL-C82Q3) is expressed from human 293 cells (HEK293). It contains AA Gln 111 - Leu 250 (Accession # [XP\\_005582818.1](#)).

Predicted N-terminus: Gly

## Molecular Characterization

This protein carries an Avi tag (Avitag™) at the N-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 50.9 kDa. The protein migrates as 55-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

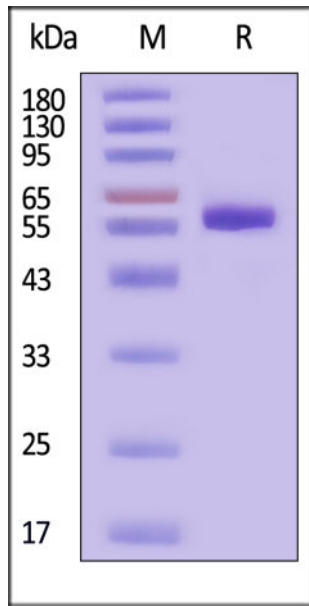
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

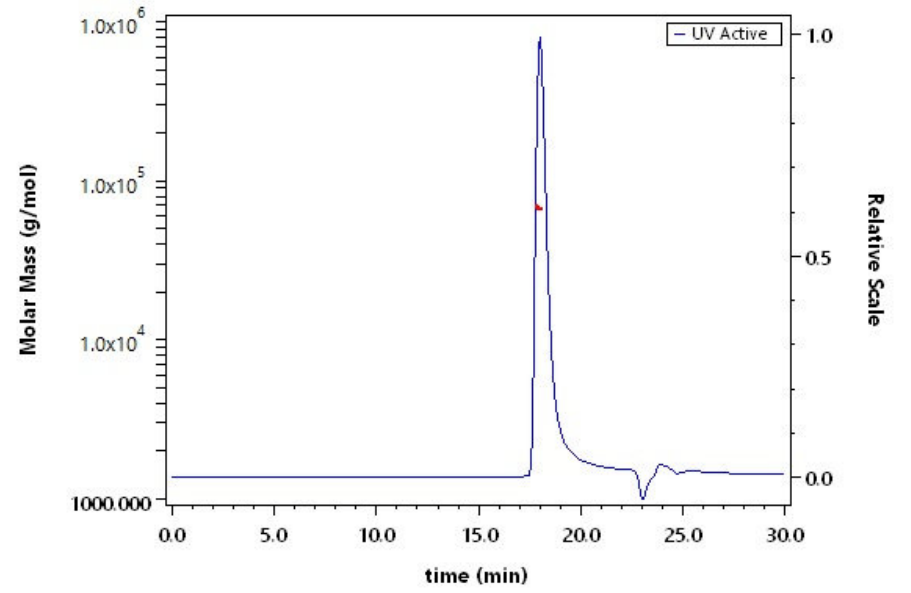
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



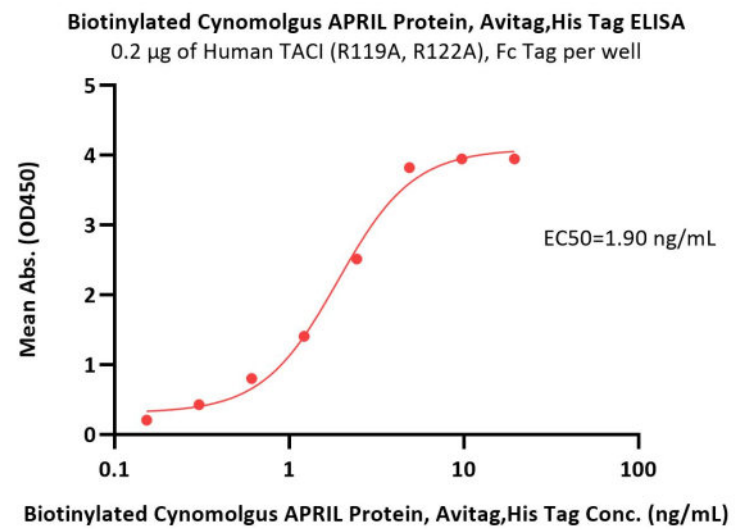
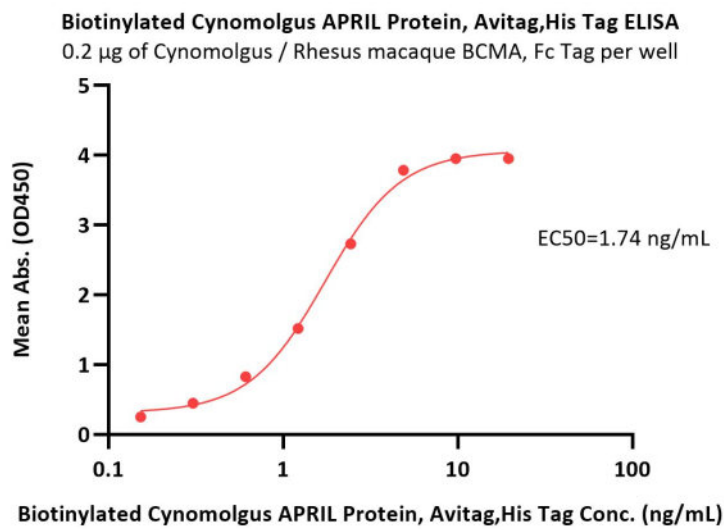
Biotinylated Cynomolgus APRIL Protein, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Biotinylated Cynomolgus APRIL Protein, Avitag,His Tag (Cat. No. APL-C82Q3) is more than 95% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

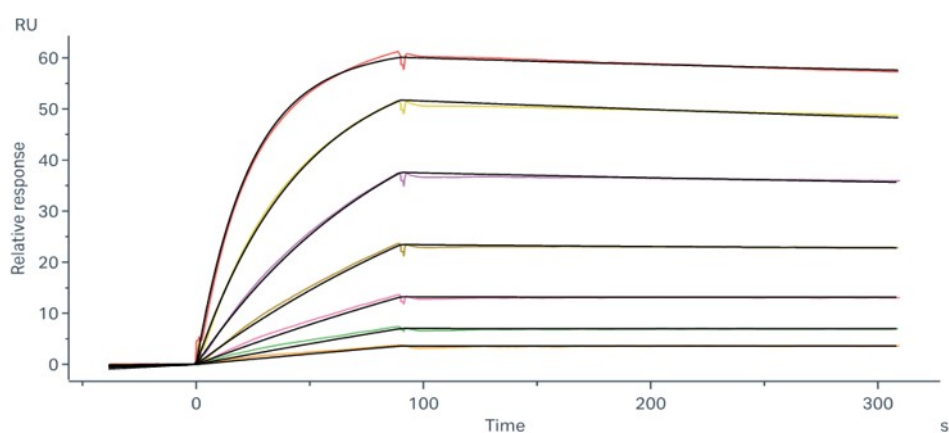
## Bioactivity-ELISA



Immobilized Cynomolgus / Rhesus macaque BCMA, Fc Tag (Cat. No. BCA-C5253) at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus APRIL Protein, Avitag,His Tag (Cat. No. APL-C82Q3) with a linear range of 0.2-5 ng/mL (QC tested).

Immobilized Human TACI (R119A, R122A), Fc Tag (Cat. No. TAI-H5253) at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus APRIL Protein, Avitag,His Tag (Cat. No. APL-C82Q3) with a linear range of 0.2-5 ng/mL (QC tested).

## Bioactivity-SPR



Biotinylated Cynomolgus APRIL Protein, Avitag,His Tag (Cat. No. APL-C82Q3) immobilized on SA Chip can bind Cynomolgus / Rhesus macaque BCMA Protein, Fc Tag (Cat. No. BCA-C5253) with an affinity constant of 0.183 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

APRIL(a proliferation-inducing ligand) is also known as Tumor necrosis factor ligand superfamily member 13, TALL-2, TRDL-1, CD256, TNFSF13, cytokine that binds to TNFRSF13B/TACI and to TNFRSF17/BCMA. APRIL is a cytokine of the tumor necrosis factor family associated mainly with hematologic malignancies. The closely related TNF family ligands B cell activation factor (BAFF) and a proliferation-inducing ligand (APRIL) serve in the generation and maintenance of mature B-lymphocytes. Both BAFF and APRIL assemble as homotrimers that bind and activate several receptors that they partially share. BAFF-APRIL heteromers of different stoichiometries have distinct receptor-binding properties and activities. In addition, expression of APRIL was regulated by miR-145 in GC cells.

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