

Mouse APRIL / TNFSF13 Protein, His Tag, low endotoxin (MALS verified)

Catalog # APL-M5243



BIOSYSTEMS
Acro

Synonyms

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

Source

Mouse APRIL Protein, His Tag (APL-M5243) is expressed from human 293 cells (HEK293). It contains AA Ala 96 - Leu 241 (Accession # [Q9D777](#)).

Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 51.4 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.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 M Arginine, 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.

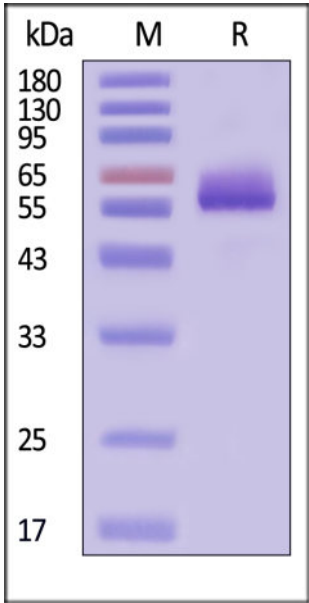
This product is stable after storage at:

- -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

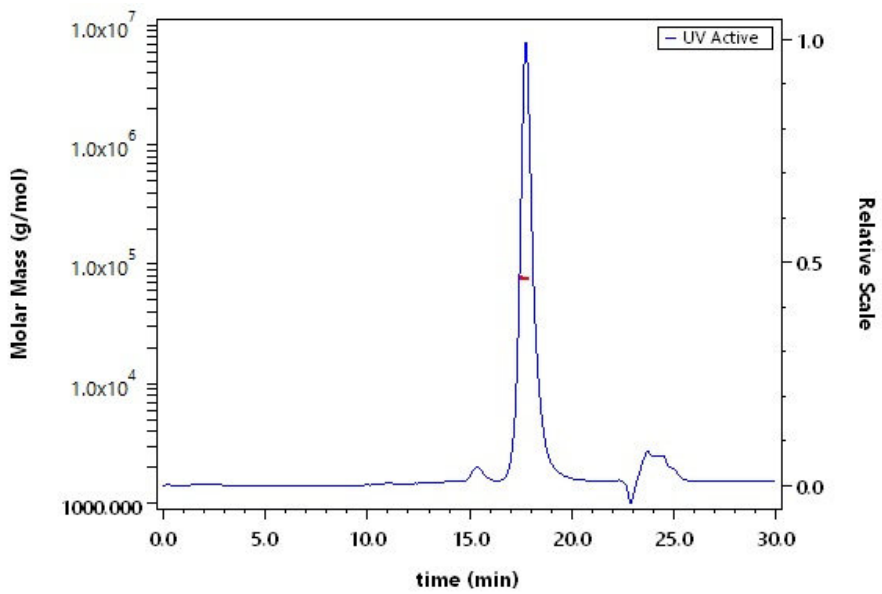
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



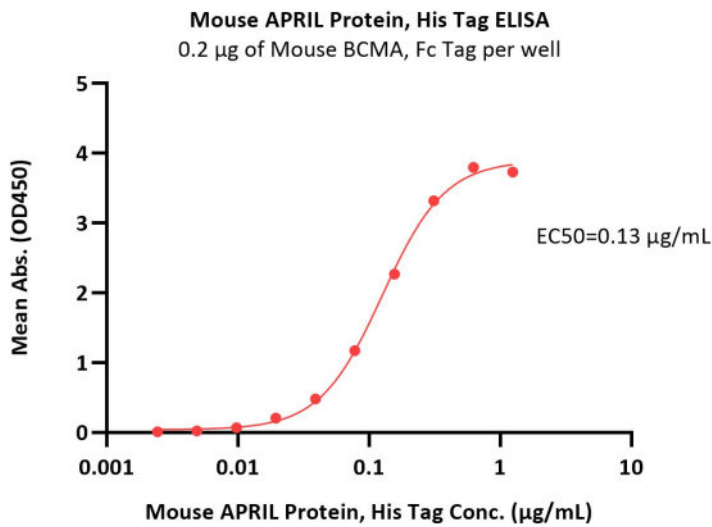
Mouse APRIL Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



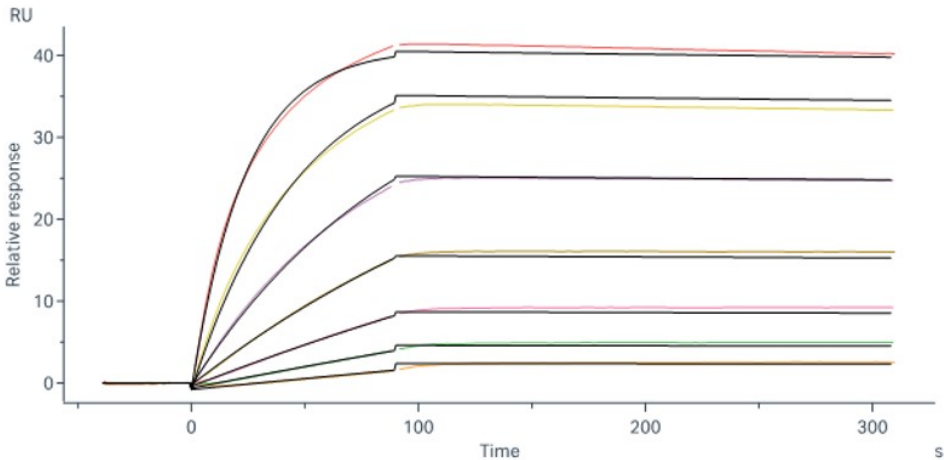
The purity of Mouse APRIL Protein, His Tag (Cat. No. APL-M5243) is more than 95% and the molecular weight of this protein is around 60-80 kDa verified by SEC-MALS.

Bioactivity-ELISA

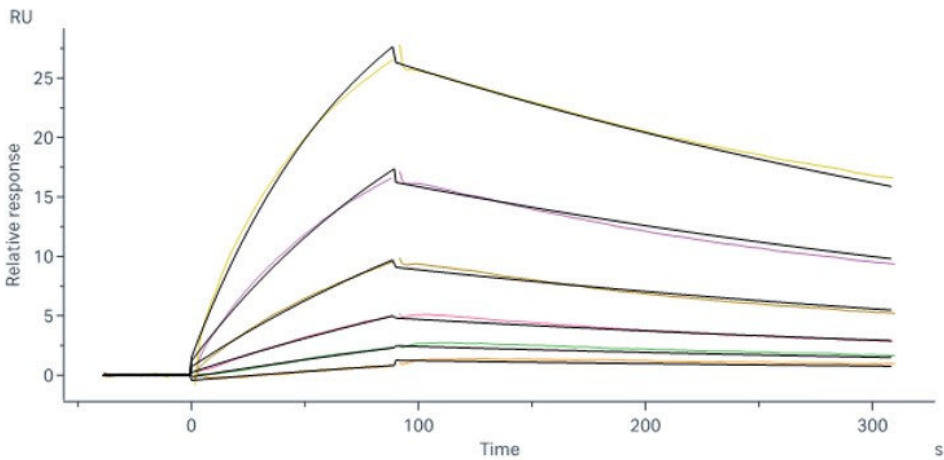


Immobilized Mouse BCMA, Fc Tag (Cat. No. BCA-M5258) at 2 µg/mL (100 µL/well) can bind Mouse APRIL Protein, His Tag (Cat. No. APL-M5243) with a linear range of 0.002-0.313 µg/mL (QC tested).

Bioactivity-SPR



Mouse APRIL Protein, His Tag(Cat. No. APL-M5243) immobilized on CM5 Chip can bind Cynomolgus / Rhesus macaque BCMA, Fc Tag (Cat. No. BCA-C5253) with an affinity constant of 0.0488 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Mouse APRIL Protein, His Tag(Cat. No. APL-M5243) immobilized on CM5 Chip can bind Biotinylated Human TACI, Fc,Avitag (Cat. No. TAI-H82F6) with an affinity constant of 417 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, TNFFSF 13, 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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