

Human APRIL & BAFF & BAFF Protein, His Tag (MALS verified)

Catalog # APB-H5243



BIOSYSTEMS
Acro

Synonyms

APRIL & BAFF & BAFF

Source

Human APRIL & BAFF & BAFF Protein, His Tag (APB-H5243) is expressed from human 293 cells (HEK293). It contains AA Ala 105 - Leu 250 (APRIL) & Gln 68-Arg 133 (BAFF) (Accession # [Q9Y275-1](#) (APRIL) & [O75888-1](#) (BAFF) & O75888-1 (BAFF)).

Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 50.7 kDa. The protein migrates as 53-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation. The protein is a heterotrimer consisting of one APRIL and two BAFF.

Endotoxin

Less than 1.0 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 20 mM Tris, 150 mM NaCl, pH8.0 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.

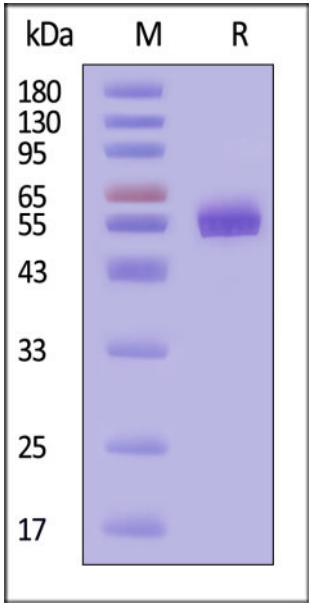
This product is stable after storage at:

- -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

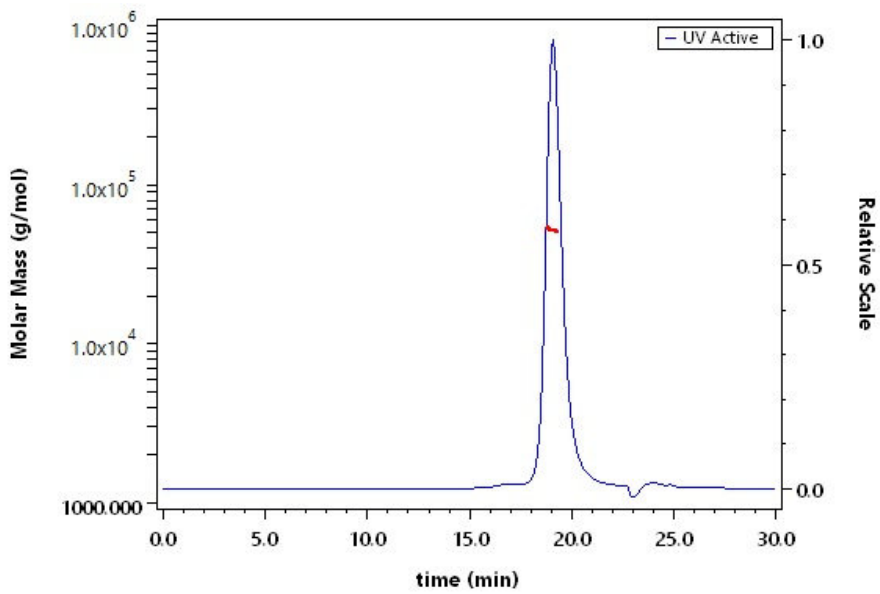
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



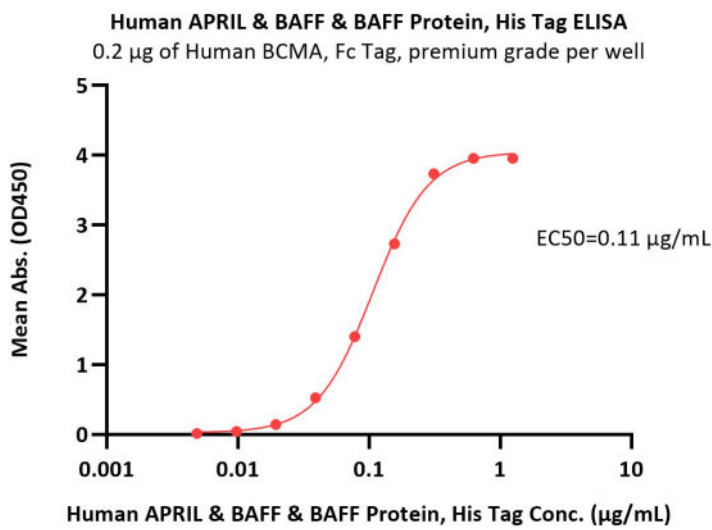
Human APRIL & BAFF & BAFF Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

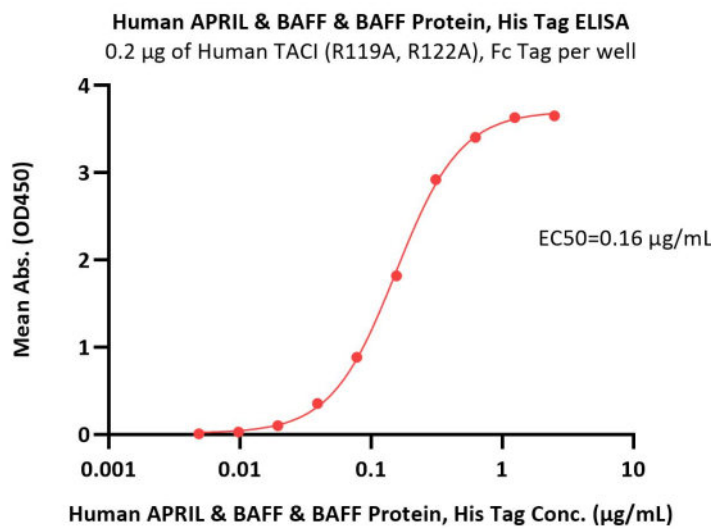


The purity of Human APRIL & BAFF & BAFF Protein, His Tag (Cat. No. APB-H5243) is more than 95% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human BCMA, Fc Tag, premium grade (Cat. No. BC7-H5254) at 2 µg/mL (100 µL/well) can bind Human APRIL & BAFF & BAFF Protein, His Tag (Cat. No. APB-H5243) with a linear range of 0.005-0.156 µg/mL (QC tested).



Immobilized Human TACI (R119A, R122A), Fc Tag (Cat. No. TAI-H5253) at 2 µg/mL (100 µL/well) can bind Human APRIL & BAFF & BAFF Protein, His Tag (Cat. No. APB-H5243) with a linear range of 0.005-0.313 µg/mL (Routinely tested).

Background

BAFF and APRIL are two members of the TNF superfamily that are secreted by activated myeloid cells and have costimulatory activity on B cells. BAFF/APRIL signaling regulates a diverse range of biological processes, including cell differentiation, proliferation, survival, and effector functions. Dysregulation of the BAFF/APRIL system has been linked to several inflammatory conditions, specifically autoimmune diseases. Elevated levels of BAFF and APRIL have been reported in autoimmune SLE patients. Both BAFF and APRIL have been described as homotrimeric molecules, a feature common to members of the TNF superfamily. But APRIL and BAFF can form active heterotrimer molecules when co-expressed, and circulating heterotrimer exists in serum samples of patients with systemic immune rheumatic diseases. These findings increase the possibility that the active BAFF/APRIL heterotrimer may play a role in rheumatic diseases and other autoimmune diseases.

Discounts, Gifts,
and more!



www.acrobiosystems.com

