

Biotinylated Cynomolgus BAFF / TNFSF13B / CD257 Protein, Avitag™, His Tag, active trimer (MALS verified)

Catalog # BAF-C82Q3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

TNFSF13B, BAFF, BLYS, CD257, DTL, TALL1, THANK, TNFSF20, ZTNF4, TALL-1

Source

Biotinylated Cynomolgus BAFF Protein, Avitag, His Tag, active trimer (BAF-C82Q3) is expressed from human 293 cells (HEK293). It contains AA Thr 141 - Leu 285 (Accession # [A0A2K5V2X4](#)).

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 52.8 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 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 25 mM MES, 150 mM NaCl, pH6.0 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.

Storage

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

Please avoid repeated freeze-thaw cycles.

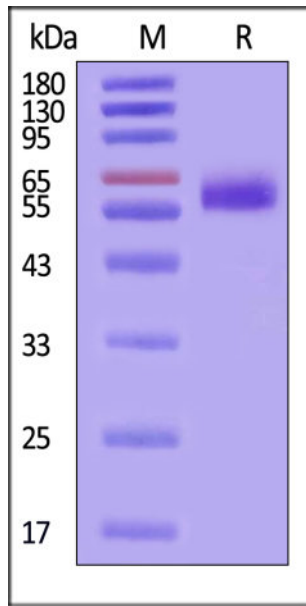
This product is stable after storage at:

- -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

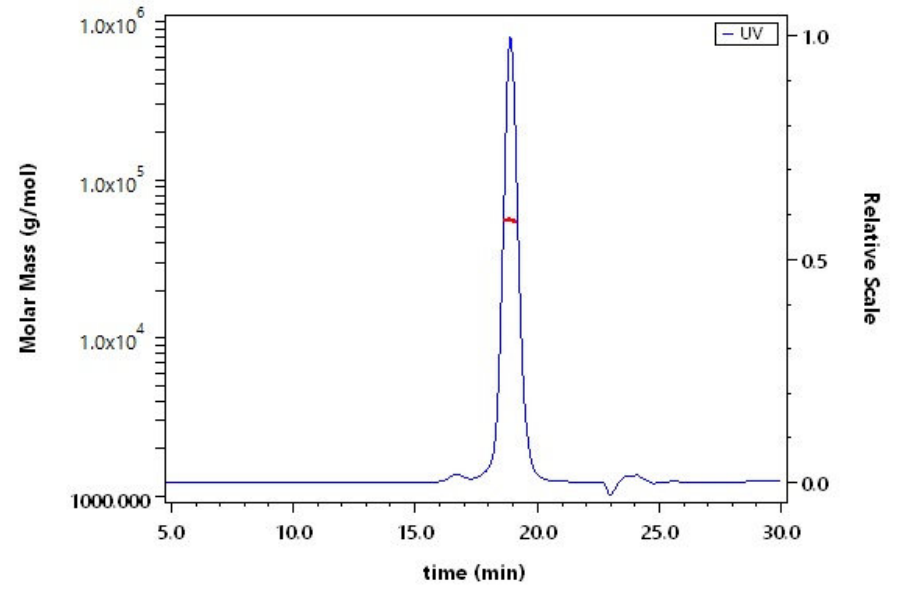
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer 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](#)).

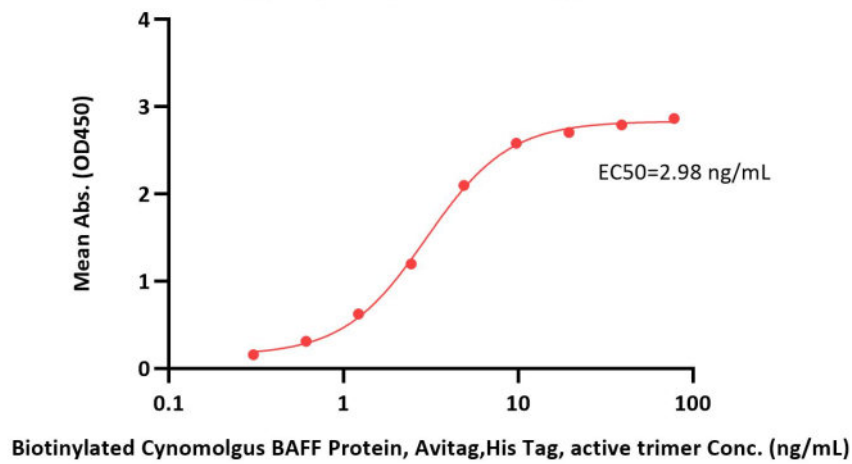
SEC-MALS



The purity of Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer (Cat. No. BAF-C82Q3) is more than 90% and the molecular weight of this protein is around 50-72 kDa verified by SEC-MALS.

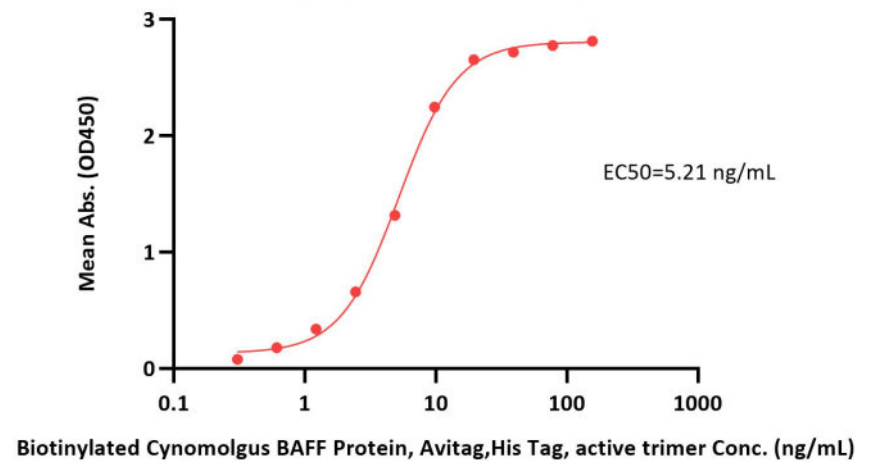
Bioactivity-ELISA

Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer ELISA
0.5 µg of Cynomolgus BAFFR, His Tag per well



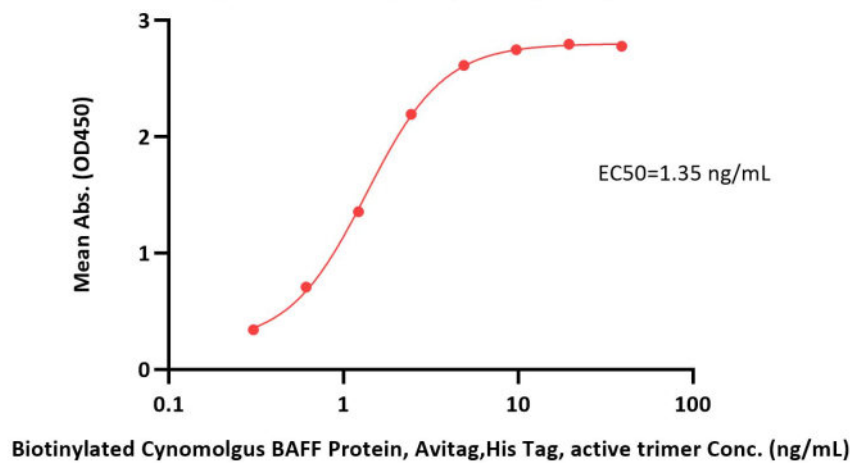
Immobilized Cynomolgus BAFFR, His Tag (Cat. No. BAR-C52H4) at 5 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer (Cat. No. BAF-C82Q3) with a linear range of 0.3-5 ng/mL (QC tested).

Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer ELISA
0.5 µg of Cynomolgus / Rhesus macaque BCMA, Fc Tag per well



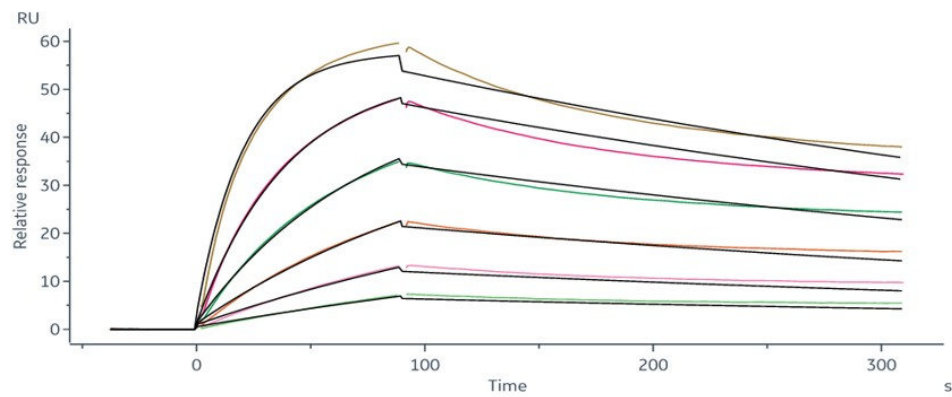
Immobilized Cynomolgus / Rhesus macaque BCMA, Fc Tag (Cat. No. BCA-C5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer (Cat. No. BAF-C82Q3) with a linear range of 0.3-10 ng/mL (Routinely tested).

Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer ELISA
0.5 µg of Human TACI (R119A, R122A), Fc Tag per well



Immobilized Human TACI (R119A, R122A), Fc Tag (Cat. No. TAI-H5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer (Cat. No. BAF-C82Q3) with a linear range of 0.3-2 ng/mL (Routinely tested).

Bioactivity-SPR



Cynomolgus BAFFR, His Tag (Cat. No. BAR-C52H4) immobilized on CM5 Chip can bind Biotinylated Cynomolgus BAFF Protein, Avitag,His Tag, active trimer (Cat. No. BAF-C82Q3) with an affinity constant of 5 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

B-cell activating factor (BAFF) is also known as tumor necrosis factor ligand superfamily member 13B , TNFSF13B, BAFF, B Lymphocyte Stimulator (BLyS) , cluster of differentiation 257 (CD257), DTL, TNF- and APOL-related leukocyte expressed ligand (TALL-1), THANK, TNFSF20, ZTNF4, and is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. It is expressed as transmembrane protein on various cell types including monocytes, dendritic cells and bone marrow stromal cells. BAFF is the natural ligand of three unusual tumor necrosis factor receptors named BAFF-R, TACI, and BCMA, all of which have differing binding affinities for it. These receptors are expressed mainly on mature B lymphocytes (TACI is also found on a subset of T-cells and BCMA on plasma cells). TACI binds worst since its affinity is higher for a protein similar to BAFF, called a proliferation-inducing ligand (APRIL). BCMA displays an intermediate binding phenotype and will work with either BAFF or APRIL to varying degrees. Signaling through BAFF-R and BCMA stimulates B lymphocytes to undergo proliferation and to counter apoptosis. All these ligands act as heterotrimers (i.e. three of the same molecule) interacting with heterotrimeric receptors, although BAFF has been known to be active as either a hetero- or homotrimer. BAFF acts as a potent B cell activator and has been shown to play an important role in the proliferation and differentiation of B cells.

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