



Synonym

TNFRSF17, CD269, BCM, BCMA

Source

Biotinylated Human BCMA, Fc,Avitag, premium grade (BC7-H82F0) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 54 (Accession # [NP\\_001183.2](#)).

Predicted N-terminus: Met 1

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage.

MBS-C004 is the GMP version of this BC7-H82F0. These two proteins display indistinguishable performance profiles, thereby ensuring a seamless transition for end users from early preclinical stag to later clinical phases.

Molecular Characterization

|                                     |                                |     |
|-------------------------------------|--------------------------------|-----|
| BCMA(Met 1 - Ala 54)<br>NP_001183.2 | Fc(Glu 99 - Lys 330)<br>P01857 | Avi |
|-------------------------------------|--------------------------------|-----|

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 33.8 kDa. The protein migrates as 40-43 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.

Sterility

Negative

Mycoplasma

Negative

Purity

- >95% as determined by SDS-PAGE.
- >95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.

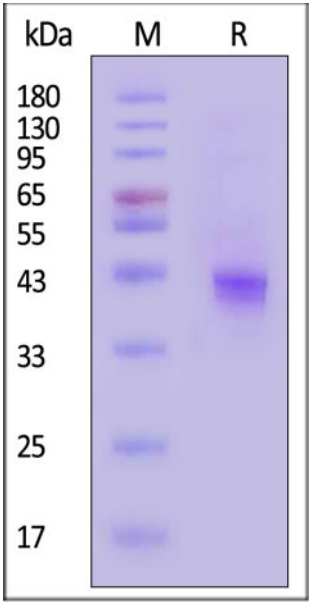
Storage

- 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

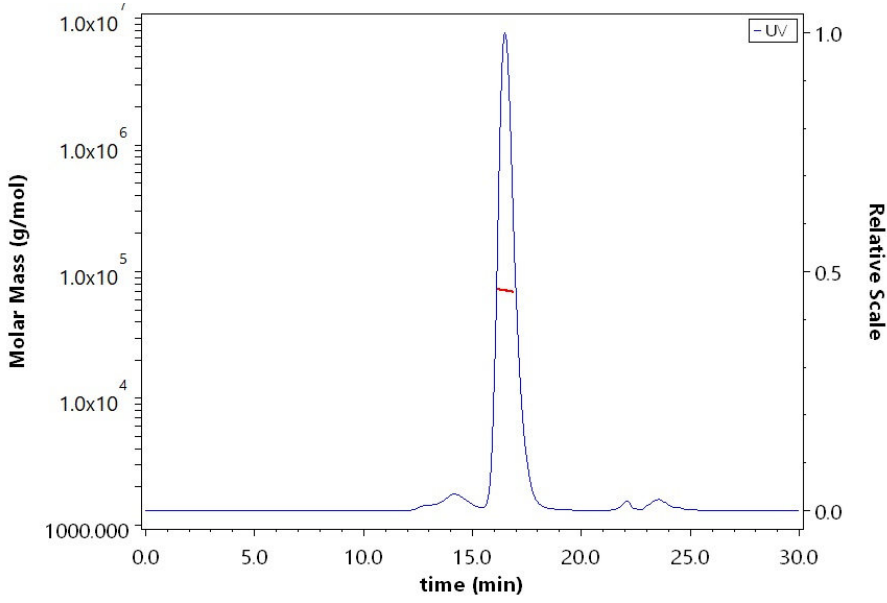
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



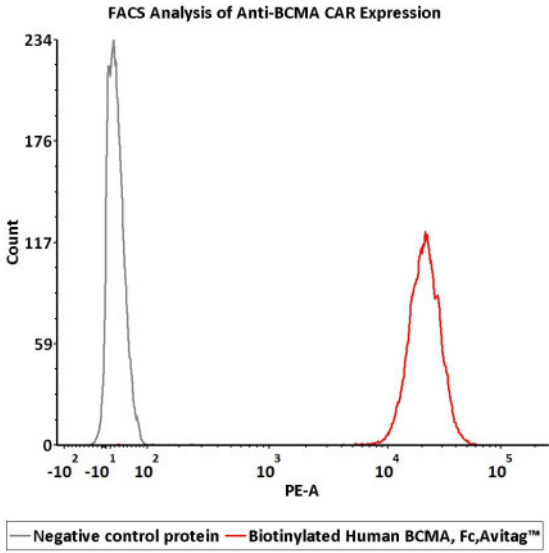
Biotinylated Human BCMA, Fc,Avitag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



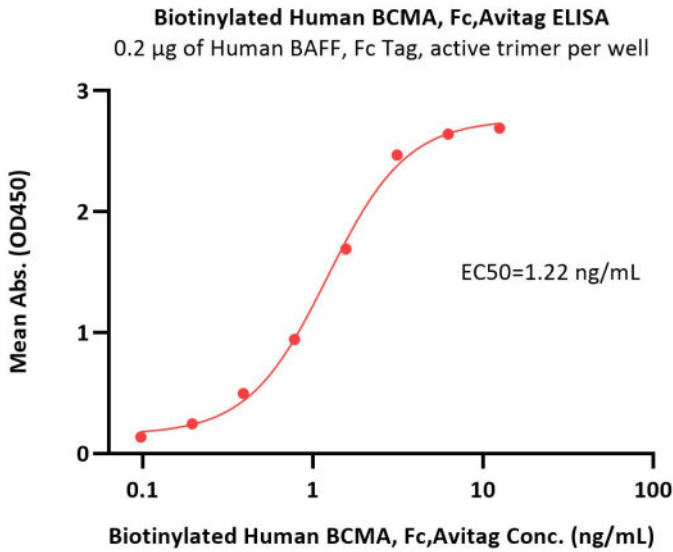
The purity of Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0) is more than 95% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.

Bioactivity-FACS

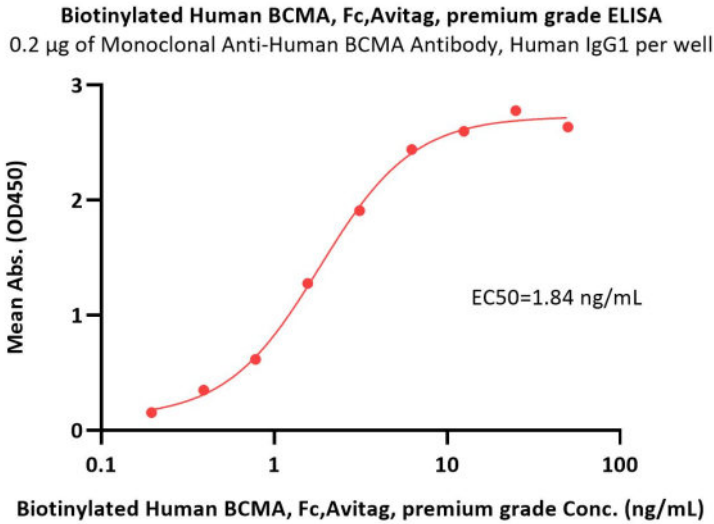


2e5 of anti-BCMA CAR-293 cells were stained with 100  $\mu$ L of 3  $\mu$ g/mL of Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0) and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (QC tested).

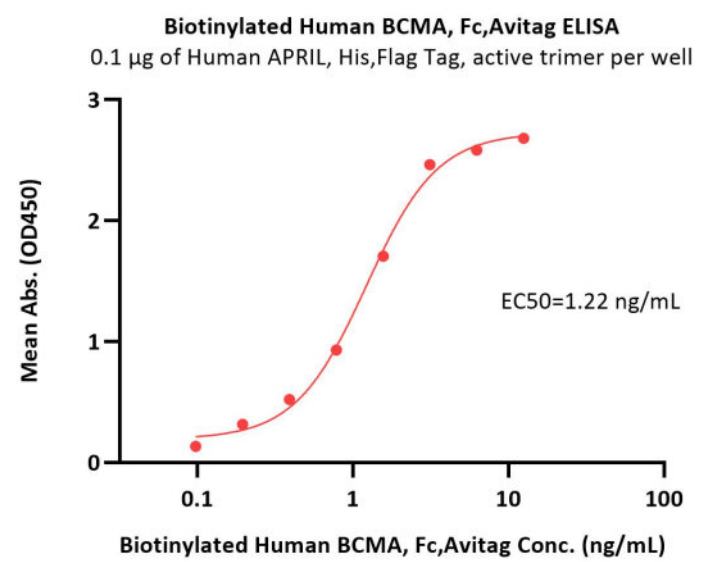
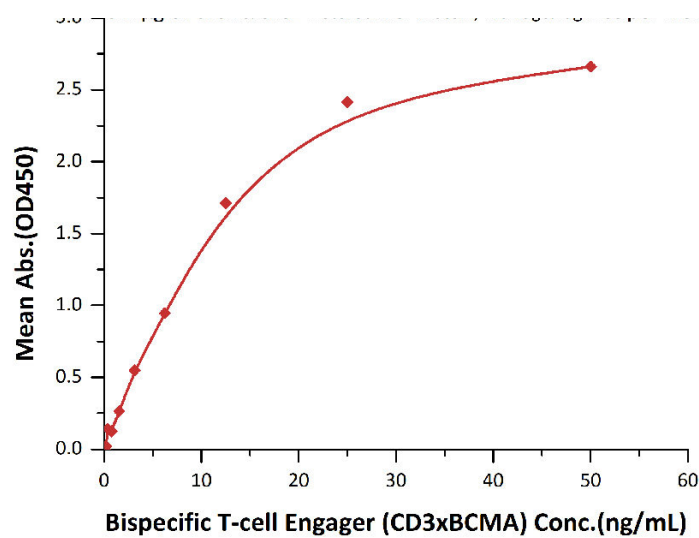
Bioactivity-ELISA



Immobilized Human BAFF, Fc Tag, active trimer (Cat. No. BAF-H5261) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0) with a linear range of 0.1-2 ng/mL (QC tested).



Immobilized Anti-Human BCMA Mab at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0) with a linear range of 0.1-3 ng/mL (Routinely tested).

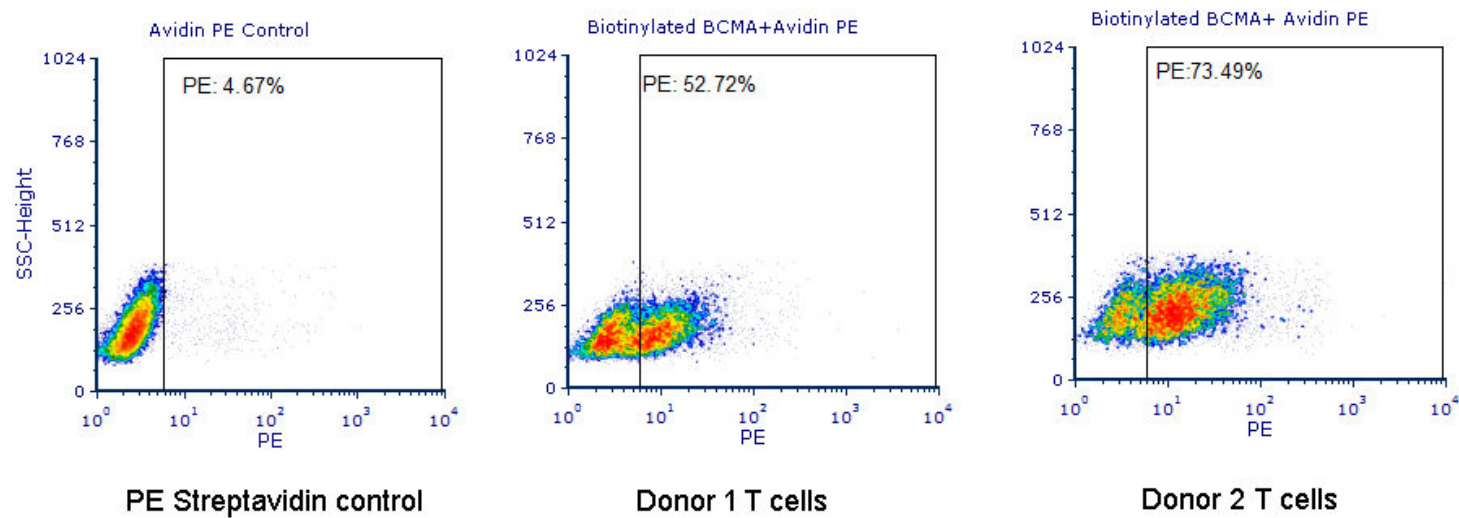


### Quantitative Analysis of Bispecific T-cell Engager (CD3 X BCMA) in human serum.

Immobilized Human CD3E&CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-H52W1) at 2 µg/mL, add increasing concentrations of Bispecific T cell Engager (CD3 X BCMA) in 10% human serum and then add Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0) at 0.2 µg/mL. Detection(Routinely tested). was performed using HRP-conjugated streptavidin with sensitivity of 4 ng/mL (Routinely tested).

## Evaluation of CAR expression

### FACS analysis of anti-BCMA CAR Expression



Human T cells were transfected with anti-BCMA CAR and cultured for 3 days. Three days post-transfection, 1e6 cells were first incubated with 50 µL Biotinylated Human BCMA, Fc,Avitag, premium grade (Cat. No. BC7-H82F0, 8 µg/mL), washed and then stained with PE Streptavidin and analyzed by flow cytometry. (Data are kindly provided by PREGENE Biopharma)

## Background

Tumor necrosis factor receptor superfamily member 17 (TNFRSF17) is also known as B-cell maturation protein (BCMA), CD antigen CD269, which is a member of the TNF-receptor superfamily. TNFRSF17 contains one TNFR-Cys repeat. TNFRSF17 is expressed in mature B-cells, but not in T-cells or monocytes. TNFRSF17 is receptor for TNFSF13B/BLyS/BAFF and TNFSF13/APRIL. TNFRSF17 promotes B-cell survival and plays a role in the regulation of humoral immunity. TNFRSF17 can activate NF-kappa-B and JNK.

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