

Biotinylated Human BCMA / TNFRSF17 Protein, His,Avitag™, premium grade

Catalog # BCA-H82E4



Synonym

TNFRSF17, CD269, BCM, BCMA

Source

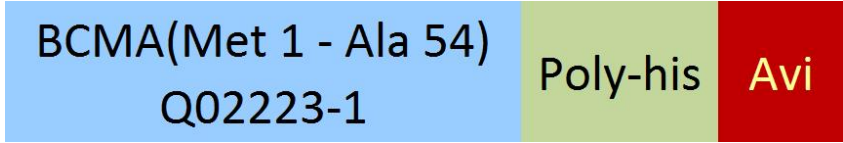
Biotinylated Human BCMA, His,Avitag, premium grade (BCA-H82E4) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 54 (Accession # [Q02223-1](#)).

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 BCA-H82E4. 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



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

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

The protein has a calculated MW of 9.6 kDa. The protein migrates as 15-17 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 0.1 EU per µg by the LAL method / rFC method.

Sterility

Negative

Mycoplasma

Negative

Purity

>90% as determined by SDS-PAGE.

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.

Storage

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

Please avoid repeated freeze-thaw cycles.

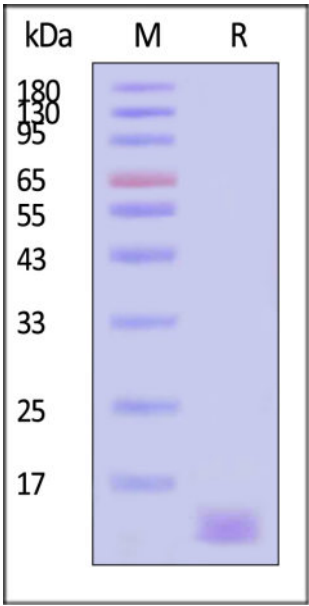
This product is stable after storage at:

- -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

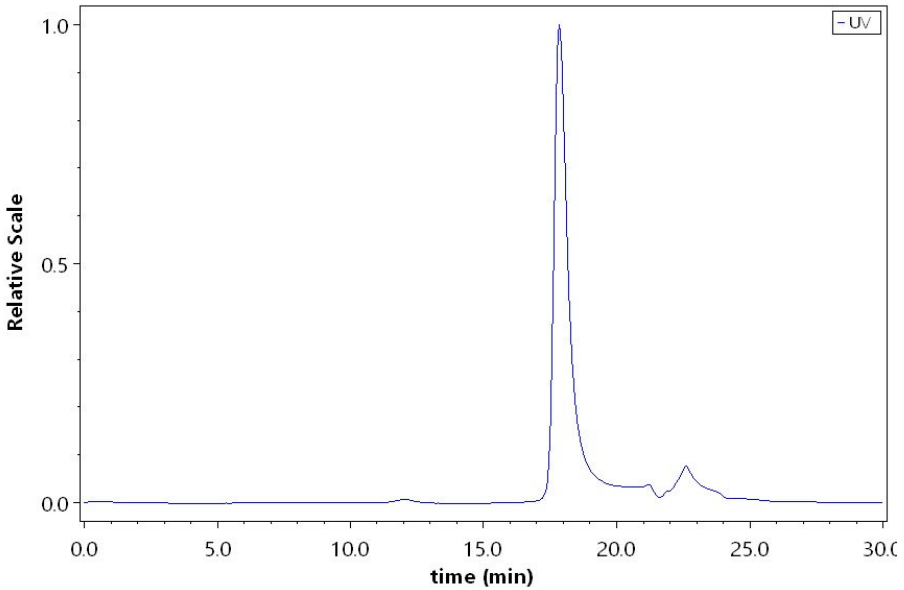
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



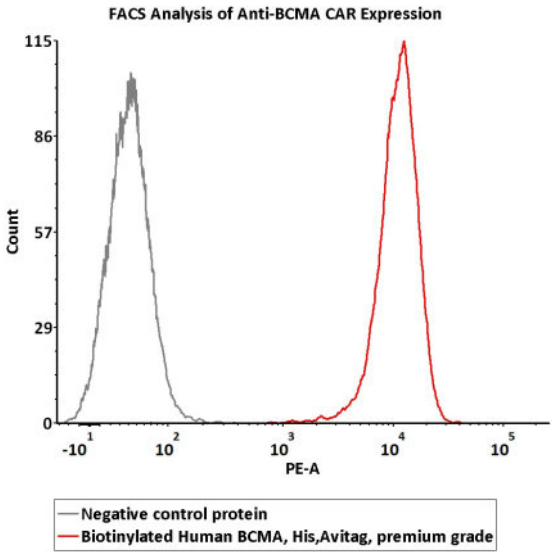
Biotinylated Human BCMA, His,Avitag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



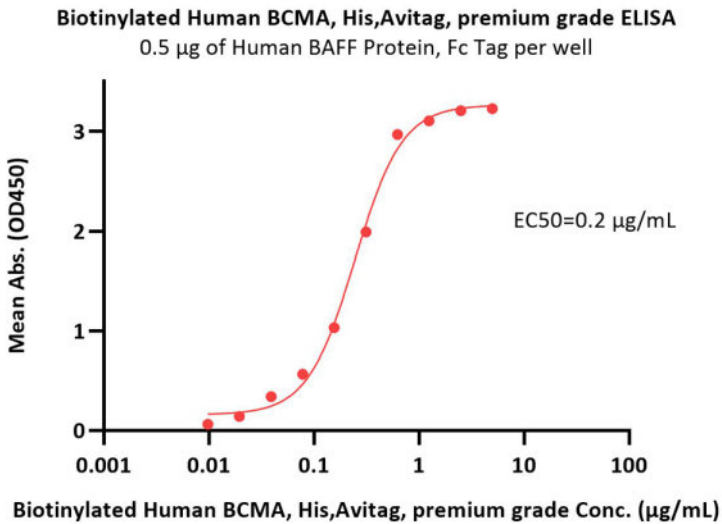
The purity of Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) was greater than 85% as determined by SEC-HPLC.

Bioactivity-FACS

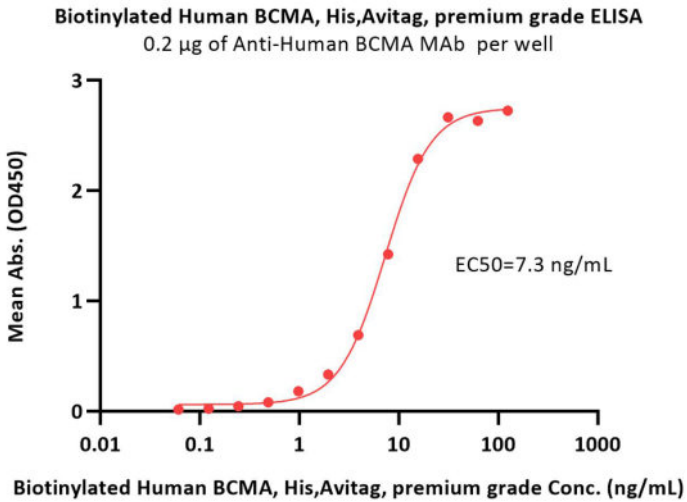


2e5 of anti-BCMA CAR-293 cells were stained with 100 μ L of 1 μ g/mL of Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (QC tested).

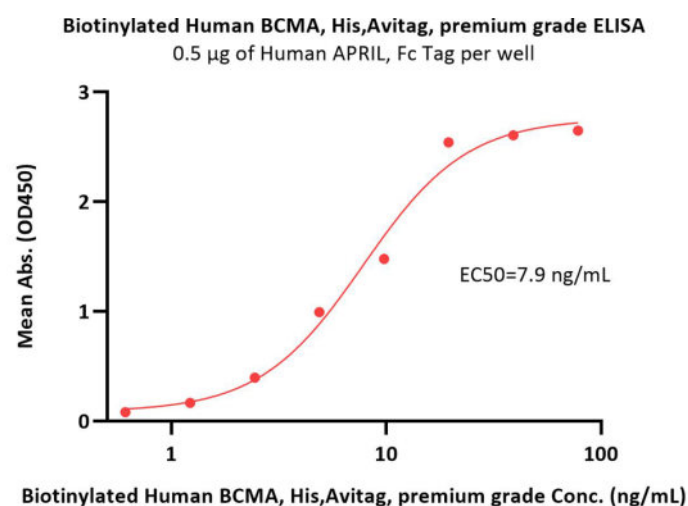
Bioactivity-ELISA



Immobilized Human BAFF, Fc Tag, active trimer (Cat. No. BAF-H5261) at 5 μ g/mL (100 μ L/well) can bind Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) with a linear range of 0.01-0.313 μ g/mL (QC tested).

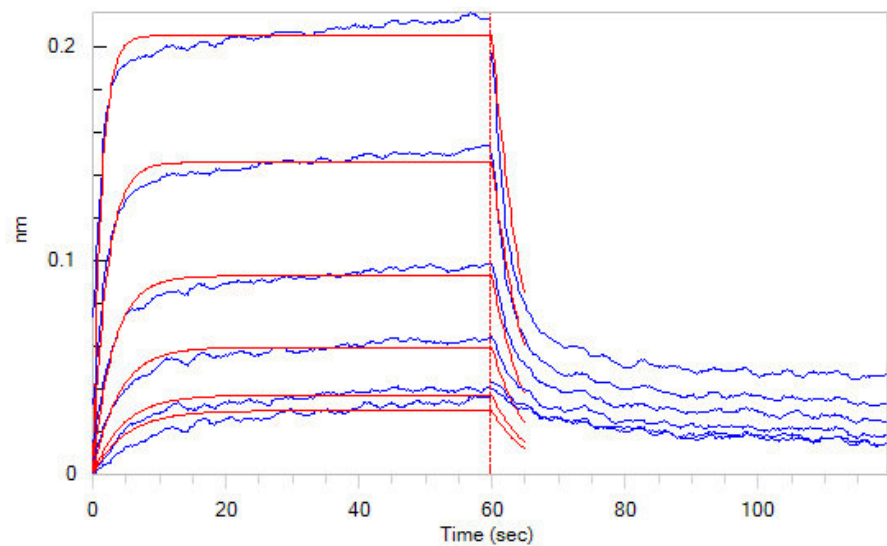


Immobilized Anti-Human BCMA MAb at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) with a linear range of 0.5-8 ng/mL (Routinely tested).



Immobilized Human APRIL, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) with a linear range of 0.6-20 ng/mL (Routinely tested).

Bioactivity-BLI



Loaded Human BAFF Protein, Fc Tag (Cat. No. BAF-H5261) on Protein A Biosensor, can bind Biotinylated Human BCMA, His,Avitag, premium grade (Cat. No. BCA-H82E4) with an affinity constant of 0.55 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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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