

Human BCMA/TNFRSF17 Protein

Cat. No. BCM-HM107



Description

Source	Recombinant Human BCMA/TNFRSF17 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Met1-Ala54.
Accession	Q02223-1
Molecular Weight	The protein has a predicted MW of 7.51 kDa. Due to glycosylation, the protein migrates to 13-23 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

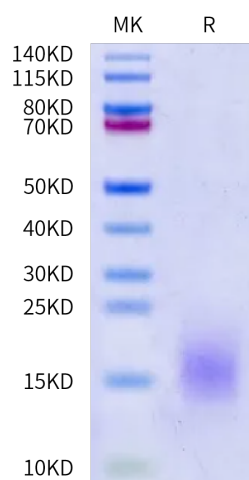
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

B-cell maturation antigen (BCMA or BCM), also known as tumor necrosis factor receptor superfamily member 17 (TNFRSF17), is a protein that in humans is encoded by the TNFRSF17 gene. TNFRSF17 is a cell surface receptor of the TNF receptor superfamily which recognizes B-cell activating factor (BAFF).

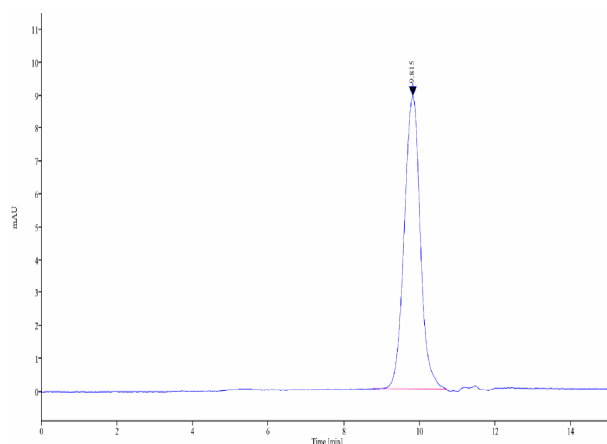
Assay Data

Bis-Tris PAGE



Human BCMA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



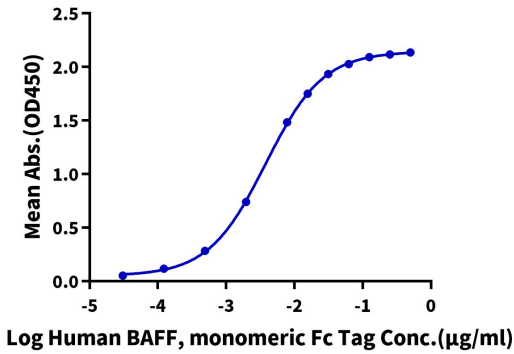
The purity of Human BCMA is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human BCMA, His Tag ELISA

0.1µg Human BCMA, His Tag Per Well

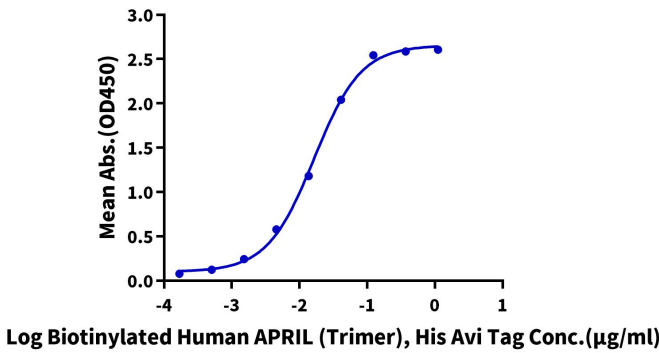


Immobilized Human BCMA, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human BAFF, monomeric Fc Tag with the EC50 of 3.8ng/ml determined by ELISA.

ELISA Data

Human BCMA, His Tag ELISA

0.1µg Human BCMA, His Tag Per Well

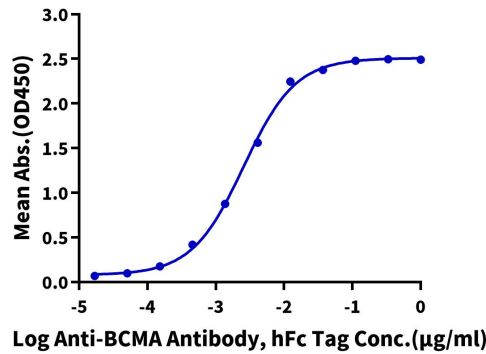


Immobilized Human BCMA, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human APRIL (Trimer), His Avi Tag with the EC50 of 16.5ng/ml determined by ELISA.

ELISA Data

Human BCMA, His Tag ELISA

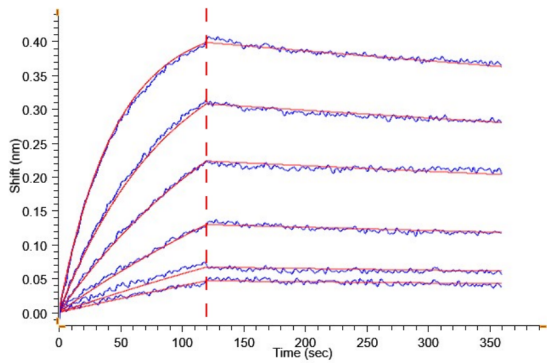
0.05µg Human BCMA, His Tag Per Well



Immobilized Human BCMA, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-BCMA Antibody, hFc Tag with the EC50 of 2.6ng/ml determined by ELISA.

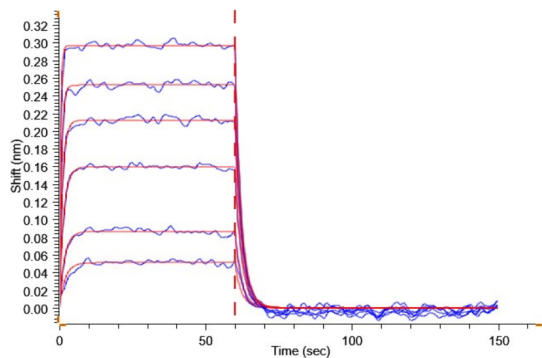
BLI Data

Assay Data



Loaded Anti-BCMA Antibody, hFc Tag on ProA-Biosensor can bind Human BCMA, His Tag with an affinity constant of 3.66 nM as determined in BLI assay.

BLI Data



Loaded Human BAFF, monomeric hFc Tag (Cat. BAF-HM214) on ProA-Biosensor can bind Human BCMA, His Tag with an affinity constant of 1.92 μ M as determined in BLI assay.