

## BCMA/TNFRSF17 Protein, Mouse, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	TNFRSF13A;TNFRSF17;BCM;BCMA;CD269
Protein Construction:	Met1-Thr49
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O88472-1
Molecular Weight:	8.5 kDa (predicted). Due to glycosylation, the protein migrates to 12-16 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Mouse APRIL, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse BCMA, His Tag with the EC50 of 3.4ng/ml determined by ELISA (QC Test).</li><li>2. Human BAFF, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Mouse BCMA, His-Avi Tag with an affinity constant of 5.64 µM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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).

Reference

Bossen C , Schneider P. BAFF, APRIL and their receptors: Structure, function and signaling[[]]. Seminars in Immunology, 2006, 18(5):0-275.

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