

BCMA/TNFRSF17 Protein, Human, Recombinant (mFc) V2

General Information

Synonyms:	BCMA;BCM;tumor necrosis factor receptor superfamily member 17;CD269;TNFRSF13A
Protein Construction:	Met1-Ala54
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q02223
Molecular Weight:	32.5 kDa (Predicted); 35-42 kDa (Reducing conditions)

QC Testing

Biological Activity:	Loaded Mouse APRIL-Fc on AHC Biosensor, can bind Human BCMA-mFc with an affinity constant of $<10^{-3}$ nM as determined in BLI assay. Loaded Human BAFF-Fc on AHC Biosensor, can bind Human BCMA-mFc with an affinity constant of 0.15 nM as determined in BLI assay. Loaded Human APRIL-His on HIS1K Biosensor, can bind Human BCMA-mFc with an affinity constant of 0.36 nM as determined in BLI assay.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/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:

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) is a member of the TNF receptor superfamily. It has been designated TNFRSF17. Mouse BCMA is a 185 amino acid (aa) protein consisting of a 49 aa extracellular domain, a 23 aa transmembrane domain, and a 113 aa intracellular domain. BCMA is a type III membrane protein containing one extracellular

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cysteine rich domain. Within the TNFRSF, it shares the highest homology with TACI. BCMA and TACI have both been shown to bind to APRIL and BAFF, members of the TNF ligand superfamily. BCMA expression has been found in immune organs and mature B cell lines. Although some expression has been observed at the cell surface, BCMA appears to be localized to the Golgi compartment. The binding of BCMA to APRIL or BAFF has been shown to stimulate IgM production in peripheral blood B cells and increase the survival of cultured B cells. This data suggests that BCMA may play an important role in B cell development, function and regulation.

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