

BCMA/TNFRSF17 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	CD269;BCM;tumor necrosis factor receptor superfamily member 17;BCMA;TNFRSF13A
Protein Construction:	Met1-Ala54
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q02223-1
Molecular Weight:	31.4 kDa (Predicted); 35-45 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human APRIL Trimer, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Human BCMA, hFc Tag with the EC50 of 3.4ng/ml determined by ELISA.
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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

Novak AJ, et al. (2004) Expression of BCMA, TACI, and BAFF-R in multiple myeloma: a mechanism for growth and survival. *Blood*. 103 (2): 689-94.

O'Connor BP, et al. (2004) BCMA is essential for the survival of long-lived bone marrow plasma cells. *J Exp Med*. 199 (1): 91-8.

Moser K, et al. (2006) Stromal niches, plasma cell differentiation and survival. *Curr Opin Immunol*. 18(3): 265-70.

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