**Recombinant Human B-cell Maturation Protein**

**Catalog No.**
- CRB700A: 5 µg
- CRB700B: 20 µg
- CRB700C: 1.0 mg

**Alternate Names:**
- BCM, BCMA, CD269, tumor necrosis factor receptor superfamily member 17, B-cell maturation factor, B cell maturation antigen, B-cell maturation protein

**Description:**
Recombinant Human BCMA is a single non-glycosylated polypeptide chain containing 50 amino acids.

B-Cell Maturation Antigen (BCMA), a member of the TNF receptor superfamily, binds to BAFF and APRIL. BCMA is expressed on mature B-cells and other B-cell lines and plays an important role in B cell development, function and regulation. BCMA also has the capability to activate NF-kappaB and JNK. The human BCMA gene codes for a 184 amino acid type I transmembrane protein, which contains a 54 amino acid extracellular domain, a 23 amino acid transmembrane domain, and a 107 amino acid extracellular domain.

**Gene ID:**
608

**Source:**
*E. coli*

**Molecular Weight:**
~5.3 kDa

**Formulation:**
Lyophilized from a 0.2 µm filtered concentrated solution in 30% acetonitrile + 0.1% TFA.

**Purity:**
>98% by SDS-PAGE and HPLC.

**Endotoxin Level:**
<1 EU/µg by LAL method

**Biological Activity:**
Fully biologically active when compared to standard. The ED$_{50}$ as determined by its ability to inhibit APRIL-mediated proliferation of anti-IgM stimulated murine B cells is no less than 40 ng/ml, corresponding to a specific activity of > 2.5 × 10$^4$ IU/mg in the presence of 100 ng/ml human APRIL.

**Amino Acid Sequence:**
AGQCSQNEYF DSSLHACIPC QLRCSSNTPP LTCQRYCNAS VTNSVKGTNA

**Reconstitution:**
Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

**Storage & Stability:**
This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

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