

## Recombinant Human B-Cell Maturation Antigen/TNFRSF17

#R00089

Size: 5 µg/100 µg/500 µg

### Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



**Warning:** This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

### Background

B-Cell Maturation Antigen (BCMA), encoded by the TNFRSF17 gene in humans. It is a member of the TNF receptor superfamily and a type III membrane protein containing one extracellular cysteine rich domain. It is expressed on mature B-cells and other B-cell lines. BCMA can binds to TNFSF13B/BLyS/BAFF and TNFSF13/APRIL, and has functions that promotes B-cell survival, plays a role in the regulation of humoral immunity, and activates NF-kappa-B and JNK BCMA.

### AA Sequence

AGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRY  
CNASVTNSVKGTNA

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0

mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

### Product Specification

|                            |                                                                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | TNFRSF17, BCM, CD269                                                                                                                                                                                                                       |
| <b>Accession</b>           | Q02223                                                                                                                                                                                                                                     |
| <b>GeneID</b>              | 608                                                                                                                                                                                                                                        |
| <b>Species</b>             | Human                                                                                                                                                                                                                                      |
| <b>Source</b>              | Escherichia coli.                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>    | Approximately 5.4 kDa, a single non-glycosylated polypeptide chain containing 50 amino acids.                                                                                                                                              |
| <b>Purity</b>              | > 98 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                      |
| <b>Biological Activity</b> | Fully biologically active when compared to standard. The ED <sub>50</sub> 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  $> 2.5 \times 10^4$  IU/mg in the presence of 100 ng/ml human APRIL.

**Physical Appearance** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation** Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in 30 % acetonitrile, 0.1 % TFA.

**Endotoxin** Less than 1 EU/ $\mu$ g of rHuBCMA as determined by LAL method.

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