

Rev03  
 Update: Dec,14,2021

**DATASHEET**

# BCMA, Human

Cat. No.: Z02731

## Product Introduction

|                                     |  |
|-------------------------------------|--|
| <b>Species</b>                      | Human  |
| <b>Protein Construction</b>         | BCMA (Ala5-Ala54)<br>Accession # Q02223  |
| <b>Purity</b>                       | > 98% as analyzed by SDS-PAGE<br>> 98% as analyzed by HPLC   |
| <b>Endotoxin Level</b>              | < 1 EU/μg of protein by LAL method   |
| <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 40.0 ng/ml, corresponding to a specific activity of > 2.5 × 10 <sup>4</sup> IU/mg in the presence of 100.0 ng/ml human APRIL. |
| <b>Expression System</b>            | E. coli  |
| <b>Theoretical Molecular Weight</b> | 5.4 kDa  |
| <b>Formulation</b>                  | Lyophilized from a 0.2 μm filtered solution in 30% acetonitrile, 0.1% TFA.   |
| <b>Reconstitution</b>               | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.  |
| <b>Storage &amp; Stability</b>      | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.   |

## Background

**Target Background :** 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.

**Synonyms** : B-cell maturation protein; CD\_antigen: CD269; TNFRSF17; BCM; Tumor necrosis factor receptor superfamily member 17

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**