

Recombinant Human BCMA/TNFRSF17

Information

Gene ID	608
Accession #	Q02223
Alternate Names	TNFRSF17, BCM, CD269
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 5.4 kDa, a single non-glycosylated polypeptide chain containing 50 amino acids.
AA Sequence	AGQCSQNEYF DSLHACIPC QLRCSSNTPP LTCQRYCNAS VTNSVKGTNA
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 30 % acetonitrile, 0.1 % TFA.
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.
Biological Activity	Fully biologically active when compared to standard. The ED50 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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5 µg	100 µg	500 µg
Recombinant Human BCMA/TNFRSF17	5 µg	100 µg	500 µg

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Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuBCMA as determined by LAL method.

Description

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.

Reference

1. Kim J, Gross JA, Dillon SR, et al. 2011. Autoimmunity, 44: 69-81.
2. Sun J, Feng J, Li Y, et al. 2006. Biochem Biophys Res Commun, 346: 1158-62.
3. Pelletier M, Thompson JS, Qian F, et al. 2003. J Biol Chem, 278: 33127-33.
4. Laabi Y, Gras MP, Brouet JC, et al. 1994. Nucleic Acids Res, 22: 1147-54.

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