

# Human TNFRSF17 / BCMA / CD269 Protein (His & Fc Tag) (HPLC-verified)

Catalog Number: HPLC-10620-H03H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

BCM; BCMA; CD269; TNFRSF13A

### Protein Construction:

A DNA sequence encoding the extracellular domain of human TNFRSF17 (NP\_001183.2) (Met 1-Ala 54) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus and a signal peptide at the N-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.  
> 95 % as determined by SEC-HPLC.

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

**Predicted N terminal:** Met 1

### Molecular Mass:

The recombinant human TNFRSF17/Fc is a disulfide-linked homodimer. The reduced monomer comprises 302 amino acids after removal of the signal peptide and has a predicted molecular mass of 34 kDa. As a result of glycosylation, the apparent molecular mass of rh TNFRSF17/Fc monomer is approximately 40 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## Protein Description

Tumor necrosis factor receptor superfamily, member 17 (TNFRSF17), also known as B cell maturation antigen (BCMA) or CD269 antigen, is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes, and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13B/BAFF), and to lead to NF-kappaB and MAPK8/JNK activation. TNFRSF17/BCMA/CD269 also binds to various TRAF family members, and thus may transduce signals for cell survival and proliferation. TNFRSF17/BCMA/CD269 is a receptor for TALL-1 and BCMA activates NF-kappaB through a TRAF5-, TRAF6-, NIK-, and IKK-dependent pathway. The identification of TNFRSF17 as a NF-kappaB-activating receptor for TALL-1 suggests molecular targets for drug development against certain immunodeficient or autoimmune diseases. TNFRSF17/BCMA is a target of donor B-cell immunity in patients with myeloma who respond to DLI. Antibody responses to cell-surface BCMA may contribute directly to tumor rejection in vivo.

## References

1. 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.
2. 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.
3. Moser K, *et al.* (2006) Stromal niches, plasma cell differentiation and survival. *Curr Opin Immunol*. 18(3): 265-70.

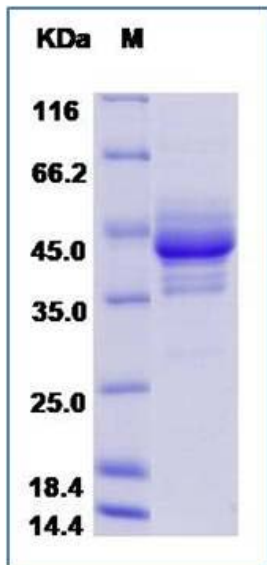
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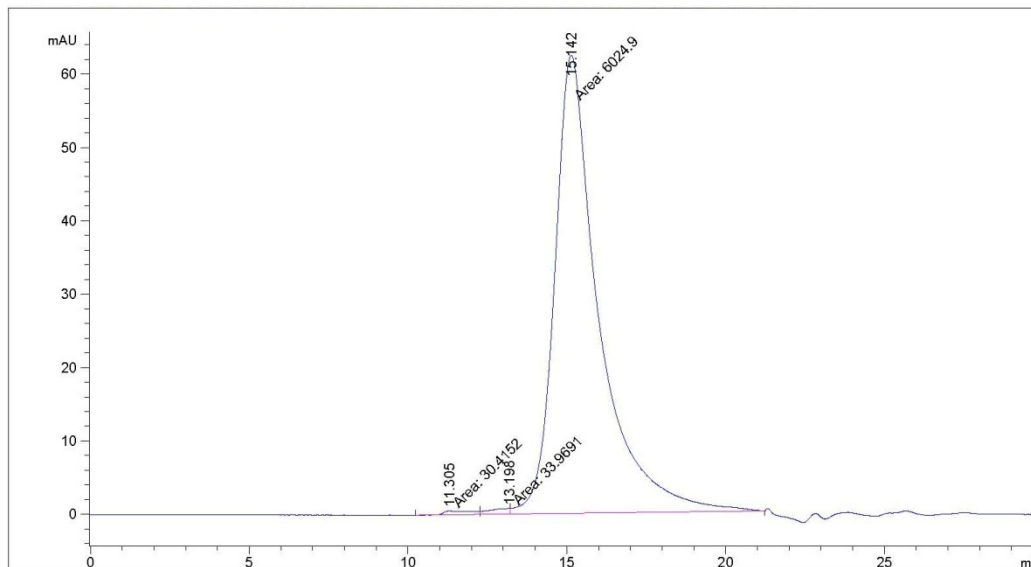
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SDS-PAGE:



96.3% as determined by SDS-PAGE

SEC-HPLC:



98.9% as determined by SEC-HPLC Analysis