

Mouse TNFSF13 Protein (Fc Tag)

Catalog Number: 50965-M01H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

2310026N09Rik; April; Tall2; Trdl1

Protein Construction:

A DNA sequence encoding the mouse TNFSF13 (Q9D777) (Ala96-Leu240) was expressed with the fused Fc region of human IgG1 at the N-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

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

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu

Molecular Mass:

The recombinant mouse TNFSF13/Fc comprises 405 amino acids and has a predicted molecular mass of 44.8 kDa. The apparent molecular mass of the protein is approximately 47 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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

Storage:

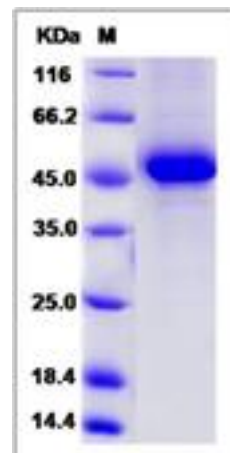
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

TNFSF13 is a member of the tumor necrosis factor (TNF) ligand family. It is a ligand for TNFRSF17/BCMA. TNFSF13 is lowly expressed in normal tissues, but is elevated in several types of tumors and transformed cell lines. It is important for B cell development. TNFSF13 may also play a role in T-independent type II antigen responses and T cell survival, and induce proliferation/survival of non lymphoid cells. It exists as a functional homotrimer. It can bind to two cell surface receptors, BCMA and TACI, which it shares with BAFF to exert downstream T- and B-cell regulatory effects. TNFSF13 also has been demonstrated to bind to proteoglycans on the cell surface.

References

1. Bossen C, *et al.* (2007) BAFF, APRIL and their receptors: structure, function and signaling. *Semin. Immunol.* 18(5):263-75.
2. Tangye SG, *et al.* (2007) BAFF, APRIL and human B cell disorders. *Immunol.* 18(5): 305-17.
3. Osman W, *et al.* (2012) Association of common variants in TNFRSF13B, TNFSF13, and ANXA3 with serum levels of non-albumin protein and immunoglobulin isotypes in Japanese. *PLoS One.* 7(4):e32683.

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