

APRIL/TNFSF13 Trimer Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	Tnfsf13;Trdl1;2310026N09Rik;Tnlg7b;April;Tall2
Protein Construction:	A DNA sequence encoding the Mouse TNFSF13 (Q9D777) (Lys104-Leu241) was fused with the Fc region of human IgG1 at the N-terminus. This construct has a trimer design.
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9D777
Molecular Weight:	75.8 kDa (predicted); 80.1 kDa (reducing contition); 178.2 kDa (SEC-MALS)

QC Testing

Biological Activity:	Immobilized Recombinant Mouse APRIL/TNFSF13 Protein (Fc Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Mouse BCMA Protein (Fc & AVI Tag), Biotinylated, the EC50 is 2-6 ng/mL.
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-MALS(Routinely tested).
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile 50 mM Tris, 100 mM Glycine, 200 mM Arginine, 150 mM NaCl, 10% Trehalose, pH 7.5. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:
Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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