

BAFF/TNFSF13B Trimer Protein, Human, Recombinant (His & Flag)

General Information

Synonyms:	BLYS;TALL-1;TNFSF13B;DTL;TNFSF20;TALL-1δ BAFF;TALL-1delta BAFF;TALL1δ4 BAFF;ZTNF4;TALL1;THANK;BAFF;TALL1Delta4 BAFF;CD257
Protein Construction:	Thr141-Leu285
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y275-1
Molecular Weight:	52.4 kDa (predicted). Due to glycosylation, the protein migrates to 53-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human BAFF Trimer, His Tag at 2 µg/mL (100 µL/well). Dose response curve for Human BAFFR, hFc Tag with the EC50 of 56.9 ng/mL determined by ELISA.2. Immobilized Human BAFF Trimer, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human TACI, hFc Tag with the EC50 of 3.5 ng/mL determined by ELISA.3. Human BAFF Trimer, His Tag captured on CM5 Chip via Anti-His Antibody can bind Mouse BCMA, hFc Tag with an affinity constant of 6.59 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

B-cell activating factor (BAFF) also known as tumor necrosis factor ligand superfamily member 13B is a protein that in humans is encoded by the TNFSF13B gene. BAFF is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFF-R.

Reference

Bossen C , Schneider P. BAFF, APRIL and their receptors: Structure, function and signaling[J]. Seminars in Immunology, 2006, 18(5):0-275.

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