

Recombinant Human TNFSF13B/BAFF/CD257 Protein

Catalog No.: RP00018 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 10673 09Y275

Tags

No tag

Synonyms

TNFSF13B;BAFF;BLYS;CD257;DTL;TALL-1;TALL1;THANK;TNFSF20;TNLG7A;ZTNF4

Product Information

Source Purification

E. coli ≥ 90 % as determined by SDS-PAGE.

Calculated MW Observed MW

17.04 kDa 20 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of 50mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The protein 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/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells.

Basic Information

Description

Recombinant Human TNFSF13B/BAFF/CD257 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala134-Leu285) of human TNFSF13B (Accession #NP 006564.1).

Bio-Activity

1.Measured by its binding ability in a functional ELISA. Immobilized recombinant human BAFF at 5 μ g/mL (100 μ L/well) can bind recombinant human BCMA with a linear range of 3-20 ng/mL.|2.Measured in a cell proliferation assay using anti-IgM stimulated mouse B cells. The ED₅₀ for this effect is 0.1-1 ng/mL, corresponding to a specific activity of 1×10^6 - 1×10^7 units/mg. |3.Loaded Human TNFRSF17/BCMA/CD269 Protein, C-hFc&His (Catalog: RP00155) on ProA Biosensor, can bind Human

TNFSF13B/BAFF/CD257 Protein, no Tag (Catalog: RP00018) with an affinity constant of 3.05nM as determined in BLI assay (Gator).

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

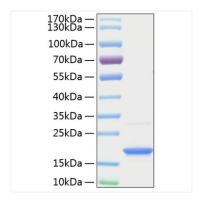
Avoid repeated freeze/thaw cycles.

Operational Notes

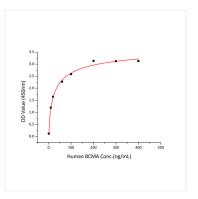
For your safety and health, please wear a lab coat and disposable gloves for handling.

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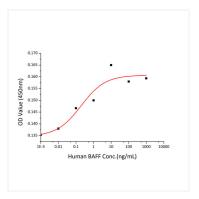
Validation Data



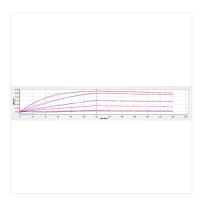
Recombinant Human TNFSF13B/BAFF/CD257 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant human BAFF at 5 μ g/mL (100 μ L/well) can bind recombinant human BCMA with a linear range of 3-20 ng/mL.



Recombinant Human BAFF induces mouse B cell proliferation. The ED_{s0} for this effect is 0.1-1 ng/mL, corresponding to a specific activity of $1\times10^6\text{-}1\times10^7\text{units/mg}.$



Loaded Human TNFRSF17/BCMA/CD269 Protein, C-hFc&His (Catalog: RP00155) on ProA Biosensor, can bind Human TNFSF13B/BAFF/CD257 Protein, no Tag (Catalog: RP00018) with an affinity constant of 3.05nM as determined in BLI assay (Gator).