

Synonym

CD267, TACI, TNFRSF13B

Source

Human TACI/TNFRSF13B, Fc Tag (TAI-H5256) is expressed from human 293 cells (HEK293). It contains AA Ser 2 - Thr 166 (Accession # [O14836-1](#)).

Predicted N-terminus: Ser 2

Molecular Characterization

TACI(Ser 2 - Thr 166) O14836-1	Fc(Glu 99 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 44.6 kDa. The protein migrates as 33-34 kDa, 35 kDa and 50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by reduced SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

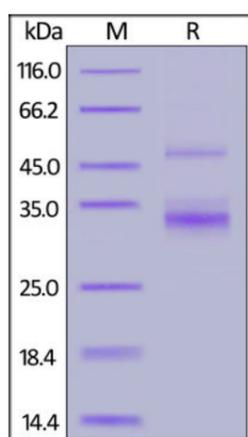
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

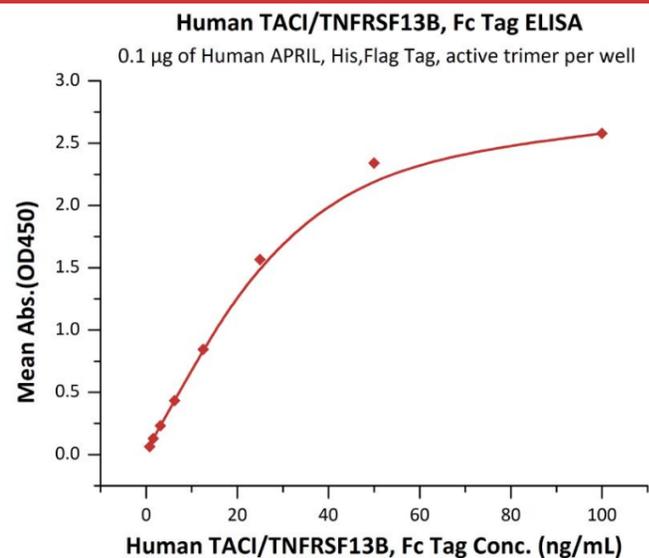
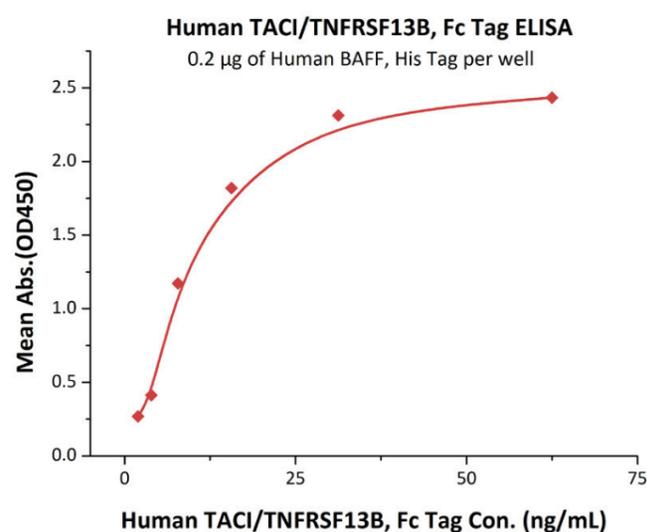
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human TACI/TNFRSF13B, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

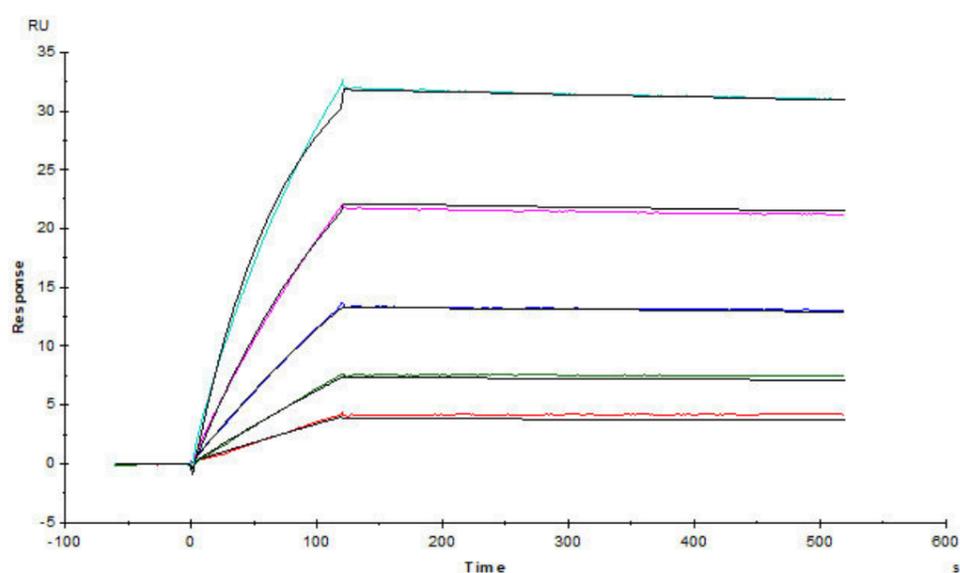
Bioactivity-ELISA



Immobilized Human BAFF, His Tag (Cat. No. [BAF-H5248](#)) at 2 µg/mL (100 µL/well) can bind Human TACI/TNFRSF13B, Fc Tag (Cat. No. [TAI-H5256](#)) with a linear range of 2-16 ng/mL (QC tested).

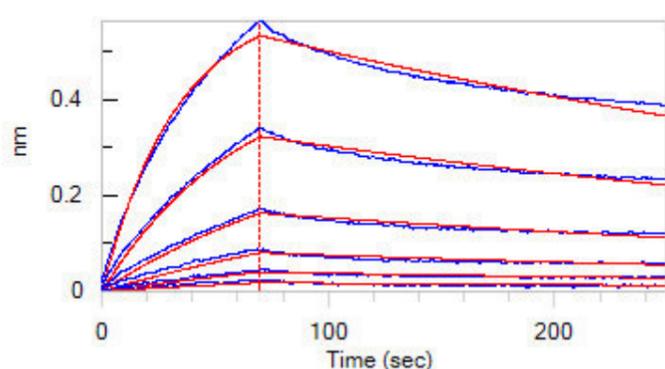
Immobilized Human APRIL, His,Flag Tag, active trimer (Cat. No. [APL-H52D1](#)) at 1 µg/mL (100 µL/well) can bind Human TACI/TNFRSF13B, Fc Tag (Cat. No. [TAI-H5256](#)) with a linear range of 0.8-25 ng/mL (Routinely tested).

Bioactivity-SPR



Immobilized Human BAFF, Fc Tag, active trimer (Cat. No. [BAF-H5261](#)) on CM5 Chip can bind Human TACI/TNFRSF13B, Fc Tag (Cat. No. [TAI-H5256](#)) with an affinity constant of 0.658 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Bioactivity-BLI



Loaded Human APRIL, His,Flag Tag, active trimer (Cat. No. [APL-H52D1](#)) on HIS1K Biosensor, can bind Human TACI/TNFRSF13B, Fc Tag (Cat. No. [TAI-](#)

H5256) with an affinity constant of 75 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Transmembrane activator and CAML interactor (TACI), also known as tumor necrosis factor receptor superfamily member 13B (TNFRSF13B). It was originally discovered because of its ability to interact with calcium-modulator and cyclophilin ligand (CAML). TACI was later found to play a crucial role in humoral immunity by interacting with two members of the TNF family: BAFF and APRIL. The present study demonstrated that, in NSCLC, a proliferation-inducing ligand (APRIL), B-cell maturation antigen (BCMA) and transmembrane activator and CAML interactor (TACI) proteins are abnormally expressed by immunohistochemistry, reverse transcription-quantitative polymerase chain reaction and western blotting. In addition, the expression of APRIL, BCMA and TACI were observed to be involved in extracellular signal-regulated kinase (ERK)1/2 activation in A549 cells.

References

- (1) [Dou, H., et al., 2016, *Oncology Letters*, 12\(5\), 3351–3355.](#)
- (2) [Van Attekum, M., 2016, *Cell Death Discovery*, 2, 16020](#)
- (3) [Cole, M. B., 2016, *Arthritis & Rheumatology \(Hoboken, N.j.\)*, 68\(12\), 2936–2944](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.